

1.1.1: The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Additional Information

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S.N.	Name of Document	
1.	Lesson Plans	
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Principal Dr. Laxman Dhaked

व्याख्यान योजना

कक्षा - बी.ए/बीएड प्रथम वर्ष प्रश्नप*त्र* प्रथम - हिंदी काव्य

क्रम संख्या	प्रकरण	व्याख्यानों की संख्या	सप्ताह
	इकाई - प्रथम		
1.	चंदवरदाई- पृथ्वीराज रासो [लघु संस्करण] सामान्य परिचय	2	1
2.	छंद संख्या - 5,9,12,15,34,60,62,69 =	5	1, 2
3.	कबीरदास का सामान्य परिचय	2	2
4.	साखी: गुरुदेव को अंग, सुमिरन को अंग, विरह को अंग, परचा को अंग, निहकर्मी पतिव्रता को अंग कुल दोहा छंद = 20	7	3
5.	जायसी का सामान्य परिचय [जायसी ग्रंथावली ; सं. रामचंद्र शुक्ल से] मान सरोदक खण्ड	7	3, 4
	इकाई - द्वितीय		
6	सूरदास का सामान्य परिचय [सूरसागर ; सं. धीरेन्द्र वर्मा] विनय तथा अक्ति, गोकुल लीला, वृन्दावन लीला राधा-कृष्ण, मथुरा गमन, उद्धव संदेस, द्वारिका चरित कुल छंद संख्या = 20	10	5, 6
7	लुलसीदास [तुलसीदास ग्रंथावली] गीतावली-बालकाण्ड, अयोध्याकाण्ड, लंकाकाण्ड, विनयपत्रिका, कवितावली- अयोध्याकाण्ड कुल छंद संख्या = 12	10	6, 7, 8
8	रसखान [रसखान रचनावली ; सं. विद्यानिवास मिश्र कुल छंद = 21	5	8
9	मीरा [मीरा पदावली ; सं. परशुराम चतुर्वेदी कुल छंद संख्या = 19	5	9
	इकाई तृतीय		
10	नरोल्तमदास - सुदामा चरित [सम्पूर्ण]	15	10, 11, 12
	इकाई चतुर्थ		
11	हिंदी साहित्य का इतिहास ; आदिकाल एवं अक्तिकाल	18	12, 13, 14, 15
	इकाई पंचम		
12	काव्यांग परिचय ; शब्द शक्ति ; अभिधा, लक्षणा, व्यंजना काव्य गुण माधुर्य, ओज, प्रसाद काव्य दोष अलंकार	18	15, 16, 17, 18
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कक्षा - बी.ए/बीएड प्रथम वर्ष प्रश्नपत्र द्वितीय - कथा साहित्य

क्रम संख्या	प्रकरण	व्याख्यानों की संख्या	सप्ताह
	इकाई प्रथम		
1	कहानियाँ : बंगमहिला - दुलाईवाली , प्रेमचंद ठाकुर का कुआं, जयशंकर प्रसाद - आकाशदीप जैनेद्र कुमार - पाजेब, सचिदानंद हीरानंद वात्साययन अन्जेय शरणदाता -	12	1, 2
	इकाई द्वितीय		
2	कहानियाँ :यशपाल - परदा, उषा प्रियंवदा - वापसी, अमरकांत - डिप्टी कलक्ट्री, यादवेन्द्र शर्मा 'चन्द्र' -मेंहदी के फूल, चन्द्रधर शर्मा 'गुलेरी' - उसने कहा था	12	3, 4
	इकाई तृतीय		
3	उपन्यास - धर्मवीर भारती - गुनाहाँ का देवता	15	5, 6, 7
	इकाई चतुर्थ		
4	हिंदी कहानी एवं उपन्यास का इतिहास	15	7, 8, 9
	इकाई पंचम		
5	कहानी एवं उपन्यास विधा : स्वरूप एवं तत्व	18	10, 11, 12, 13

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व्याख्यान योजना

कक्षा - बी.ए/बीएड द्वितीय वर्ष

प्रश्नपत्र द्वितीय - प्रयोजनमूलक हिंदी

हम	प्रकरण	व्याख्यानौं की संख्या	सप्ताह
संख्या	डकाई - प्रथम	10 11 50 11	
I	इकाइ - प्रथम प्रयोजनमूलक हिंदी अभिप्राय और क्षेत्र, पत्रिकारिता रूप और प्रकार, पत्रकार वार्ता	15	1, 2, 3
2	हिंदी पत्रिकारिता का संक्षिप्त इतिहास	3	3
3	प्रमुख पत्र पत्रिकाए और पत्रकार	12	4, 5
	इकाई - द्वितीय		
4	संपादन कला सम्पादकीय लेखन	6	6
5	रिपोर्टिंग प्रूफ - शोधन	3	7
6	साक्षात्कार, प्रेस प्रबंधन	3	7
7	प्रेस कानून और आचार संहिता	6	8
	इकाई - तृतीय		
8	संचार माध्यम लेखन	6	9
9	संचार माध्यम का स्वरूप मुद्रण श्रव्य, दृश्य, इन्टरनेट	6	10
10	संचार माध्यमो की प्रकृति और चरित्र	6	11
11	विज्ञापन लेखन - उद्देश्य और स्वरूप तथा मासिक - विन्यास	6	12
12	रेडियो लेखन श्रव्य आषा की प्रकृति, रेडियो के विविध पक्ष - उद्घोषणा, समाचार, नाटक, एवं रूपक, फीचर, रिपोर्ट, संयोजन	12	13, 14
	इकाई - चतुर्थ		
13	टेलीविजन एवं फिल्म लेखन दृश्य माध्यमो की आषा और सामग्री संयोजन पाश्र्ववाचन	9	15, 16
14	पटकथा लेखन, संवाद लेखन, टेलीइामा एवं डॉक्यूमेंट्री साहित्य कृतियों का दृश्यों में रूपांतरण इन्टरनेट : सामग्री -सृजन एवं संयोजन	12	16, 17, 18
-	इकाई - पंचम		6/40 E 107
15	अनुवाद महत्त्व और स्वरूप प्रक्रिया प्रकार, अनुवाद और समतुल्यता	6	19, 20
16	अनुवाद समीक्षा, अनुवाद की प्रकृति, अनुवाद की समस्याएँ	6	20, 21
17	पारिभाषिक शब्दावली के अनुवाद की समस्याएँ साहित्यानुवाद की समस्याएँ continue of IQAC)	3	21

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कक्षा - बी.ए/बीएड द्वितीय वर्ष

प्रश्नपत्र प्रथम - हिंदी साहित्य (हिंदी काव्य)

क्रम संख्या	प्रकरण	व्याख्यानौं की संख्या	सप्ताह
	इकाई - प्रथम		
1	केशवदास [संक्षिप्त रामचन्द्रिका : सं. लाला अगवान दीन] बालकाण्ड, अयोध्याकांड, अरण्यकांड, सुन्दरकाण्ड, लंकाकाण्ड, उत्तरकाण्ड कुल छंद संख्या = 121	9	1, 2
2	बिहारी [बिहारी रत्नाकर : सं. जगन्नाथ दास रत्नाकर] कुल छंद संख्या 35	9	2, 3
	इकाई - द्वितीय		
3	घनानन्द [घनानन्द कवित्त सं. विश्वनाथ प्रसाद मिश्र]	6	4
4	भूषण [भूषण ग्रंथावली सं. विश्वनाथ प्रसाद मिश्र]	9	5, 6
5	सूर्यमल्ल मिश्रण - वीर सतसई प्रारम्भ के 50 छंद	9	6, 7
	इकाई - तृतीय		
6	जगन्नाथदास रत्नाकर - उद्धव शतक [सम्पूर्ण]	18	8, 9, 10
	इकाई - चत्र्थ		
7	हिंदी साहित्य का इतिहास : रीतिकाल	21	11, 12, 13, 14,
	इकाई - पंचम		
8	काव्य रीति - रस - रस का स्वरूप, अवयव एवं रस लक्षण, विशलेषण एवं निष्पत्ति हिंदी के प्रमुख आचार्य एवं उनका चिंतन	21	14, 15, 16, 17

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कक्षा - बी.ए/बीएड तृतीय वर्ष

प्रश्नपत्र प्रथम - आधुनिक हिंदी कविता

S.NO.	प्रकरण	व्याख्यानों की संख्या	सप्ताह
	इकाई - प्रथम		
1.	मैथिलीशरण मुप्त का सामान्य परिचय	2	1
2.	[]द्वापर से - विधृता, [ii]यशोधरा से - यशोधरा 5 एवं 6	10	1, 2
3.	जयशंकर प्रसाद : आंस् - 19 छंद, लहर से 3 गीत एवं 1 कविता 1. ले चल वहा भुलावा दैकर 2. बीती विभावरी जाग री 3. मेरी आँखों की पुलली में 4. एक कविता -3 पेशोलो की प्रतिध्वनि	15	3, 4, 5
4.	सूर्यकांत त्रिपाठी 'निराला'1. जूही की कली 2. बादल राग 3. तोडती पत्थर 4. स्नेह निर्झर वह गया है	9	5, 6
	इकाई - द्वितीय		
5	सुमित्रा नंदन पंत का व्यक्तित्व एवं कृतित्त्व	2	7
6	1. प्रथम रश्मि [वीणा से] 2.ऑस् की बालिका [पल्लव से]	5	7, 8
7	3. मौन निमंत्रण [पल्लव से] 4. दुत झरो [युगान्त से]	5	8
8	महादेवी वर्मा का सामान्य परिचय	2	9
9	1. जो तुम आ जाते एक बार	2	9
10	2. कौन तुम मेरे हृदय में	3	9, 10
11	3. मधुर मधुर मेरे दीपक जल	2	10
12	4. में नीर भरी दुःख की बदली	3	10
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14	1. सिंदूर तिलकित आल 2. हरिजन गाथा	5	11, 12
15	3. सत्य 4. बहुत दिनों के बाद	5	12
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16	सच्चिनंद हीरानन्द वात्सयायन अज्ञेय का सामान्य परिचय	2	13
.7	1. आज थका हिय हरिल मेरा 2. सागर मुद्रा -2	5	13, 14
.8	2. नदी के दीप 4. कितनी नावों में कितनी बार	5	14
.9	गजानन माधव मुक्तिबोध का सामान्य परिचय	2	15
0	 ब्रहमराक्षस 2.कल जो हमने चर्चा की थी 	7	15, 16
1	धूमिल का सामान्य परिचय	1	16
2	1. मोचीराम 2. पटकथा	5	16, 17
3	रघुवीर सहाय का सामान्य परिचय	1	17
4	1. रामदास 2 भाषिनायक 3. आत्महत्या के विरुद्ध	11,5	17, 18,

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	इकाई चतुर्थ	11.42	19, 20
25	आध्निक हिंदी कविता का इतिहास : वाद और प्रवृत्तियाँ	12	19, 20
20	डकाई - पंचम		-
	आधुनक हिंदी कविता के वैचारिक आधार एवं लत्त्व - मानववाद, विकासवाद,	12	21, 22
26	आधुनक हिंदा कावता के विपारिक आवार रेव रारिक	6	23
27	आधुनिकता, मार्क्सवाद, मनोविश्लेषण, असितत्वाद, फैटेंसी, मिथक, प्रतीक		

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कक्षा - बी.ए/बीएड तृतीय वर्ष

प्रश्नपत्र - द्वितीय : नाटक और निवन्ध

S.NO.	प्रकरण	व्याख्यानों की संख्या	सप्लाह
	इकाई प्रथम		-
1	नाटक आषाढ़ का एक दिन - मोहन राकेश कबीरा खड़ा बाजार में - भीष्म साहनी	15	1, 2, 3
	इकाई द्वितीय		
2	(क) निबन्ध संग्रह (निबंधो का सामान्य परिचय)	3	3
3	बालकृष्ण भट्ट - साहित्य जन - संमूह के ह्रदय का विकास है	3	4
4	 चन्द्रधर शर्मा 'गुलेरी' -धर्म और समाज 	3	4
5	2. रामचंद्र शुक्ल - उत्साह	5	5
6	4.हजारी प्रसाद द्विवेदी - देवदारु	4	5, 6
7	5.महादेवी वर्मा - प्रणाम	3	6
	इकाई तृतीय		
8	 अज्ञेय - सौन्दर्यबोध और शिवत्वबोध नामवर सिंह - संस्कृति और सौन्दर्थ 	9	7
9	3.निर्मल वर्मा - भारतीय संस्कृति और राष्ट्र	3	7, 8
10	 विद्यानिवास मिश्र - हल्दी दूब और दधि अच्छत 	3	9
11	4. कुबेरनाथ राय - मधुर मधुर मेरे रसराज	3	9
	इकाई चतुर्थ		
12	हिंदी नाटक एवं रंगमंच तथा निबंध का इतिहास	15	10, 11, 12
	इकाई पंचम	_	
13	1. नाटक की विधा और उसके तत्त्व	9	12, 13
14	 निबंध विधा - स्वरूप और शैलियाँ 	9	14, 15

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Veena Memorial PG College, Karauli (Raj.) Arvind Kumar Patel

Lecturer Name -

Class

Session

Subject

Paper I

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 BA /	BA	B.ED.	Part 1

2022 - 23 Sociology

Principles of Sociology

Tentative Plan for the Seassion 2022-23

5. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Nature of Sociology : Meaning of Sociology	1	1
02	The Sociological Perspective	2	1
03	Sociology and other Social Sciences	3	1
04	Scientific & Humanistic Orientation to Sociological Study	3	Ш
	UNIT - II		11
05	Basic Concepts : society	3	11
06	Basic Concepts : Community	3	<u>111</u> 111
07	Basic Concepts : Institution	2	Contraction of the second s
08	Basic Concepts : Association	2	III, IV
09	Basic Concepts : group	4	IV, V
10	Basic Concepts : Social Structure	3	V,VI
11	Basic Concepts : Status and Role	4	VI
12	Institution : Family & Kinship	4	VII
13	Institution : Religion	3	VII, VIII
14	Institution : Education	2	VIII
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15	The Individual & Society : Society	2	VIII
16	The Individual & Society : Culture	3	VIII,IX
17	The Individual & Society : Socialization	4	IX
18	Relation between individual and society	2	X
19	Social Control : Norms, Values and Sanctions	4	X
20	Social Startification : Meaning, form & theories	4	
21	Social Mobility : Meaning, form & theories	4	XI, XII
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22	Social Change : meaning and types	2	XII
23	Social Change : Evolution	2	XIII
24	Social Change : Revolution	2	
25	Social Change : Progress	2	XIII
26	Social Change : Development	2	XIII
27	Factors of Social Change	2	XIV
28	Social Change theory of Ogburn	2	XIV
29	Social Change theory of Sorokin	2	XIV
30	Social Change theory of Karl Marx	2	XV
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31	The uses of Sociology : Introduction to Applied Sociology	2	
32	Sociology and Social Problems	3	XV, XV
33	Sociology and Social Change	2	XVI
34	Sociology & Social Policy and Social Action	N 3	XVI

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Lecturer Name	÷ -	Arvind Kumar I
Class	÷.,	BA/BA.B.ED
Session	5	2022 - 23
Subject	-	Sociology
Paper II		Indian Society
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Tentative Plan for the Seassion 2022-23

	Tentative Plan for the Scassion 2022-23	NO. OF	WEEK
NO.	TOPIC	LECTURE	
. 1401		Line	
	UNIT-1	2	1
11	UNIT -1 Cultural and Ethnic Diversity: Historically embedded	-5.	
	s i i i na to l anguigge	2	1
)2	Cultural and Ethnic Diversity: Historically embedded		
		2	I
03	A Tehnin Diversity' Historically emocoded		
	the sector beautions periors and traverees	2	11
04	Cultural and Ethnic Diversity: Historically embedded		
actor	diversities in respect to Cultural Patterns		
	UNIT - II	3	П
05	The Textual and the Field-View of Indian Society	4	11,111
06	Concepts of Varna	4	111, IV
07	Concepts of Ashram	3	IV
08	Concepts of Dharma	2	V
09	Concepts of Karma	3	V
10	Concepts of Purushartha	3	V, VI
11	The Significance of the Field-View		
	UNIT - III	3	VI
12	Basic Institutions of Indian Society : Caste	3	VI, VII
13	Basic Institutions of Indian Society : Kinship Basic Institutions of Indian Society : Kinship	3	VII
14	Basic Institutions of Indian Society : Family Basic Institutions of Indian Society : Matriage	4	VII, VIII
15	Basic Institutions of Indian Society : Marriage Basic Institutions of Indian Society : Religion	3	VIII
16	Basic Institutions of Indian Society : Religion Basic Institutions of Indian Society : Religion Caste and Class: Meaning, Features and Changing Dimensions	4	IX
17	Caste and Class: Meaning, Features and Changerg		
			IV N
	UNIT – IV The Structure and Composition of Indian Society: Villages	3	1X, X X
18	d Composition of Indian Society, Towns	3	and the second se
19	The Structure and Composition of Indian Society: Cities	3	X, XI
20	The Structure and Composition of an	2	XI
21	Rural-Urban Linkages	3	XI
22	Weaker Sections : Tribes	3	XII
23	Weaker Sections : Dalit	3	XII
24	Weaker Sections : Women	2	XIII
25	Weaker Sections : Minorities Population Profile and related issues	3	XIII
26	Population Profile and related issues		
	UNIT – V	3	XIII, XI
27	Process of Social Change: Sanskritisation	3	XIV
28	Process of Social Change: Westernisation	3	XIV, X
	Decrease of Social Change: Urbanisation	3	XV
29	Planned Change and Transformation in India	3	XV, XV
31	Wation - Building and National Identity	2	

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PRINCIPAL Veena Memorial PG College Karauli (Raj.)

Lecturer Name	
Class	1
Session	-
Subject	Зй.
Paper I	-
	847-1

Arvind Kumar Patel BA / BA.B.ED. Part II 2022 - 23 Sociology Social Thinkers

Tentative Plan for the Seassion 2022-23

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Emile Durkheim: Social Fact	6	I
02	Emile Durkheim: Division of Labour	6	П
03	Emile Durkheim: Suicide	6	m
04	Emile Durkheim: Religion	4	IV
	UNIT – II		
05	Max Weber: Social Action	6	IV, V
06	Max Weber: Bureaucracy	6	V, VI
07	Max Weber: Ideal Type	4	VI, VII
08	Max Weber: Religion	4	VII
	UNIT – III		
09	Karl Marx: Class Struggle	6	VIII
10	Karl Marx: Dialectical Materialism	6	IX
11	Karl Marx: Surplus Value	4	X
12	Karl Marx: Alienation	4	X, XI
	UNIT – IV		
13	Radha Kamal Mukherjee: Social Values	4	XI
14	Radha Kamal Mukherjee: Social Ecology	4	XII
15	Radha Kamal Mukherjee: Theory of Social Sciences	4	XII, XIII
	UNIT – V		
16	G.S. Ghurye: Caste	4	XIII
17	G.S. Ghurye: Class	4	XIV
18	G.S. Ghurye: Occupation	r 4	XIV, XV
19	G.S. Ghurye: Social Tension	Nº 4	XV

Veena Memorial PG College Karauli (Rar.)

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Lecturer Name	
Class	
Session	-
Subject	
Paper II	-

Arvind Kumar Patel BA / BA.B.ED. Part II 2022 - 23 Sociology

- Social Anthropology

Tentative Plan for the Seassion 2022-23

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Social Anthropology : Definition		1
02	Second Anthropology + Nature & Scope	3	1
03	Approaches to the study of Social Anthropology : Structural - Europional approach	3	1, 11
04	Approaches to the study of Social Anthropology : Evolutionary approach	3	П
05	Approaches to the study of Social Anthropology : Comparative approach	3	11, 111
	UNIT – II	4	111
06	Marriage : Meaning & Types	4	III, IV
07	Marriage : Theories and Methods of Mate selection	4	IV, V
08	Family : Meaning & Characteristics	4	V
09	Family : Theories & Types	4	V, VI
10	Family : Kinship Organisation	4	1, 11
	UNIT - III	4	VI, VII
11	Culture : Meaning and Theories of Culture Growth	4	VII
12	Religion : Meaning and Theories of Origin	4	VII, VIII
13	Religion : Beliefs and Practices	3	VIII
14	Magic : Meaning & Types	2	IX
15	Magic : Relation with Religion	4	17
	UNIT – IV	2	IX
16	Primitive Economic System : Meaning	4	IX, X
17	Primitive Economic System : Characteristics	4	X
18	Primitive Economic System : Functioning	2	XI
19	Primitive Political System : Meaning	4	XI
20	Primitive Political System : Characteristics	4	XII
21	Primitive Political System : Primitive Law & Customs	4	7.11
	UNIT – V		XII, XII
22	Problems of Tribes in India	4	XIII
23	Tribal Development	3	XIV
24	Tribes in Rajasthan : Bhil	3	XIV
25	Tribes in Rajasthan : Meena	3	XV
26	Tribes in Rajasthan : Garasiya	3	XV
27	Tribes in Rajasthan : Saharia		

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Veena Memorial PG College Karauli (Raj.)

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Lecturer Name -Class Session Subject

S. NO.

- Arvind Kumar Patel BA / BA.B.ED. Part III
- 2022 23
- Sociology

-

Paper I Survey Methods in Social Investigations -

Tentative Plan for the Seassion 2022-23

5.	TOPIC		
	UNIT-1	NO. OF	WEEL
-		LECTURE	
01	Scientific Study of Social Phenomena		
02	I Natural Sciences & Social Sciences and Internet		
02	Charles of Social Sciancos - Data	3	1
04	Social Survey : Meaning	3	1
05	Social Survey : Nature	2	П
06	Social Research : Meaning	4	Ш
07	Social Research : Nature	2	III
08	Scientific Method : Meaning	4	111
09	Scientific Method : Stages	2	IV
09	Scientific Method : Importance	2	IV
-		3	IV,V
	UNIT – II		
	Logic of Social Research		
10	Objectivity & Subjectivity in Sociological L		
11	reponnesis i Meaning	3	V
12	Hypothesis : Types	2	V
13	Hypothesis : Formulation Pronous	2	VI
14	Primary Data : Meaning and Forms	2	
15	Primary Data : Sources	3	
16	Secondary Data : Meaning and Forms	3	VI, VII
17	Secondary Data : Sources	3	VII
	secondary Data . Sources	3	VII, VII
	UNIT – III		VIII
	Tools and T. J.		
18	Tools and Techniques for Data Collection Observation		-
19	Interview		
20		3	VIII, IX
21	Questionnaire Schedule	2	IX
22		3	IX
	Case Study Method	2	X
	LINUS IN	3	X
	UNIT – IV		
23	Procedure of Selecting Representative Units		
23	and partice and and the		
	Sampling : Types	2	X, XI
15	Sampling : Methods for Sample Selection	4	XI
6	Sampling : its limitations	4	XI, XII
7	Content Analysis	2	XII
		4	XII, XIII
	UNIT – V		and and
-	Quantitative Issues in Social Research		
8	rubular riesentation of Data · Disconist		
)	rabular Presentation of Data - Multimed	2	XIII
)	Statistical Averages ' Meaning and T	2	
	statistical Averages (coloudation of the	2	XIII, XIV
2	Statistical Averages : Calculation of Mean Statistical Averages : Calculation of Median	3	XIV
	Statistical Averages : Calculation of Mode	3.1	XIV
	Viges , Calculation of Mode	0 30	XV
	19m	(max)	XV

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PRINCIPAL Weena Memorial PG College Karauli (Raj.)

Lecturer Name		Arvind Kumar Patel
Class	-	BA / BA.B.ED. Part III
Session	3	2022 - 23
Subject	2	Sociology
Paper II-		Problems in Contemporary India

Tentative Plan for the Seassion 2022-23

Tentative Plan for the Seassion 2022-25		WEEK
TOPIC	NO. OF LECTURE	WEEN
UNIT - I		
Social Problems: Some Conceptual Issues		1
Social Problems & Social Disorganisation : Meaning		1
Social Problems & Social Disorganisation : Relations		1,11
Social Problems : Theoretical Perspectives		1, 11
Social Problems : Types		11, 111
Social Problems : Factors	3	11, 311
UNIT - II		
Structural Problems in Contemporary India	6	111, IV
Rural Problems		IV
Gender Disparity		IV, V
Communalism		V
m p there of Minorities		V, VI
Description of Description Social Categories : Scheduled Caste		VI
Problems of Deprived Social Categories : Scheduled Tribes		
UNIT – III		
Familial Problems in Contemporary India	2	VL VII
		VII
Divorce		VII
		VIII
Problems of Elderly		VIII
Problems of Youth in India		IX
Aids Problem		
UNIT - IV		
Disorganizational Problems in Contemporary India	4	IX, X
Crime		X
Juvenile Delinquency		X, XI
Corruption		XI
Drug Addiction		XI, XII
Terrorism		XII
Casteism		
UNIT – V		
Development Problems in Contemporary India	4	XII, XIII
Poverty		XIII, XIV
Unemployment		XIV
Illiteracy		XIV, XV
Environmental Pollution		XV
Problems of Slums	18	XV, XV
Development Induced Displacement		XVI
	UNIT -1 Social Problems: Some Conceptual Issues Social Problems & Social Disorganisation : Meaning Social Problems & Social Disorganisation : Relations Social Problems : Theoretical Perspectives Social Problems : Types Social Problems : Factors UNIT - II Structural Problems in Contemporary India Rural Problems Gender Disparity Communalism The Problems of Minorities Problems of Deprived Social Categories : Scheduled Caste Problems of Deprived Social Categories : Scheduled Tribes UNIT - III Familial Problems in Contemporary India Dowry Divorce Child Marriage Problems of Elderly Problems of Elderly Problems Outrin India Aids Problem UNIT - IV Disorganizational Problems in Contemporary India Crime Juvenile Delinquency Corruption Drug Addiction Terrorism Casteism UNIT - V Development Problems in Contemporary India Poverty Unemployment	TOPIC NO. OF LECTURE UNIT - I Social Problems: Some Conceptual Issues 3 Social Problems & Social Disorganisation : Meaning 3 Social Problems & Social Disorganisation : Relations 2 Social Problems & Social Disorganisation : Relations 3 Social Problems : Theoretical Perspectives 2 Social Problems : Theoretical Perspectives 2 Social Problems : Factors 3 UNIT - II Image: Social Categories : Scheduled Caste Gender Disparity 3 Communalism 3 The Problems of Minorities 3 Problems of Deprived Social Categories : Scheduled Tribes 3 Divorce 3 Divorce 3 Divorce 3 UNIT - IV Image: Scheduled Caste Disorganizational Problems in Contemporary India 3 Crime 4 Uvenite Delinquency 4 Uvenite Delinquency 3 Outri - IV Image: Scheduled Caste Disorganizational Problems in Contemporary India 3 Drug Add

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PRINCIPAL Veena Memorial PG Colinaria Karauli (Raj)

Arvind Kumar Patel Lecturer Name -

BA/BA.B.ED. Part I

Class Session

2021 - 22

Subject 1

Paper I

Sociology

Principles of Sociology

Tentative Plan for the Seassion 2021-22

	Tentative Plan for the Seassion 2021-22	NO. OF	WEEK
NO.	TOPIC	LECTURE	
	UNIT-1	1	1
1	Nature of Sociology : Meaning of Sociology	2	1
2	The Sociological Perspective	3	1
3	Sociology and other Social Sciences	3	11
4	Scientific & Humanistic Orientation to Sociological Study		
	UNIT – II	3	11
5	Basic Concepts : society	3	111
)6	Basic Concepts : Community	2	III
)7	Basic Concepts : Institution	2	111, IV
)8	Basic Concepts : Association	4	IV, V
)9	Basic Concepts : group	3	V,VI
10	Basic Concepts : Social Structure	4	VI
11	Basic Concepts : Status and Role	4	VII
12	Institution : Family & Kinship	3	VII, VIII
13	Institution : Religion	2	VIII
14	Institution : Education	2	
	UNIT-III	2	VIII
15	The Individual & Society : Society	3	VIII,IX
16	The Individual & Society : Culture	4	1X
17	The Individual & Society : Socialization	2	X
18	Relation between individual and society	4	X
19	Social Control : Norms, Values and Sanctions	4	XI
20	Social Startification : Meaning, form & theories	4	XI, XII
21	Social Mobility : Meaning, form & theories		
	UNIT – IV	2	XII
22	Social Change : meaning and types	2	XII
23	Social Change : Evolution	2	XIII
24	Social Change : Revolution	2	XIII
25	Social Change : Progress	2	XIII
26	Social Change : Development	2	XIV
27	Eactors of Social Change	2	XIV
28	Social Change theory of Ogburn	2	XIV
29	Social Change theory of Sorokin	2	XV
30	Social Change theory of Karl Marx	4	
	UNIT – V		XV
	The uses of Sociology : Introduction to Applied Sociology	2	
31	Sociology and Social Problems	3	XV, XV
32	Sociology and Social Change	2	XVI
33	Sociology and Social Change Sociology & Social Policy and Social Action	3.9	XVI
34	Sociology a Special Folicy and Section	PRINCIPI	AL
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Coordinator(IQAC) Veena Memorial PG College Veena Campus, Veena Marg, Kumuli-32224)

Lecturer Na	une -	Arvind Kumar Patel
Class	100	BA / BA.B.ED. Part I
Session		2021 - 22
Subject		Sociology
Paper II	÷.	Indian Society
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Tentative Plan for the Seassion 2021-22

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT-1		
01	Cultural and Ethnic Diversity: Historically embedded diversities in respect to Language	2	1
02	Cultural and Ethnic Diversity: Historically embedded diversities in respect to Caste	2	1
03	Cultural and Ethnic Diversity: Historically embedded diversities in respect to Religious Beliefs and Practices	2	1
04	Cultural and Ethnic Diversity: Historically embedded diversities in respect to Cultural Patterns	2	11
	UNIT - II	3	11
05	The Textual and the Field-View of Indian Society	4	11,111
06	Concepts of Varna		III, IV
07	Concepts of Ashram	3	IV
08	Concepts of Dharma	2	V
09	Concepts of Karma	3	V
10	Concepts of Purushartha	3	V, VI
11	The Significance of the Field-View	3	V , V 1
	UNIT - III	3	VI
12	Basic Institutions of Indian Society : Caste	3	VI, VII
13	Basic Institutions of Indian Society : Kinship	3	VII
14	Basic Institutions of Indian Society : Family Basic Institutions of Indian Society : Marriage	4	VII, VIII
15	Basic Institutions of Indian Society : Religion	3	VIII
16 17	Caste and Class: Meaning, Features and Changing Dimensions	4	IX
_	UNIT – IV		
18	The Structure and Composition of Indian Society: Villages	3	IX, X
19	The Structure and Composition of Indian Society: Towns	3	X
20	The Structure and Composition of Indian Society: Cities	3	X, XI
21	Rural-Urban Linkages	2	XI
22	Weaker Sections : Tribes	3	XI
23	Weaker Sections : Dalit	3	XII
24	Weaker Sections : Women	3	XII
25	Weaker Sections : Minorities	2	XIII
26	Population Profile and related issues	3	XIII
	UNIT – V	2	VIII VII
27	Process of Social Change: Sanskritisation	3	XIII, XIV
28	Process of Social Change: Westernisation	3	XIV
29	Process of Social Change: Urbanisation	3	XIV, XV
30	Planned Change and Transformation in India	3	XV
31	Nation Building and National Identity	3	XV, XV

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PRINCIPAL Veene Memorial PG College Karauli (Raj.)

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Lecturer	Name
Class	
Session	
Subject	
Paper 1	

Arvind Kumar Patel BA / BA.B.ED. Part II 2021 - 22 Sociology Social Thinkers

Tentative Plan for the Seassion 2021-22

S. NO.	TOPIC	NO. OF LECTURE	WEEK
01	UNIT – I		
01	Emile Durkheim: Social Fact	6	I
02	Emile Durkheim: Division of Labour	6	П
03	Emile Durkheim: Suicide	6	
04	Emile Durkheim: Religion	4	III IV
	UNIT – II		_
05	Max Weber: Social Action	-	
06	Max Weber: Bureaucracy	6	IV, V
07	Max Weber: Ideal Type	6	V, VI
08	Max Weber: Religion	4	VI, VII VII
	UNIT – III		
09	Karl Marx: Class Struggle		
10	Karl Marx: Dialectical Materialism	6	VIII
11	Karl Marx: Surplus Value	6	IX
12	Karl Marx: Alienation	4	X
	115.7000	4	X, XI
12	UNIT – IV		
3	Radha Kamal Mukherjee: Social Values	4	XI
4	Radha Kamal Mukherjce: Social Ecology	4	XII
5	Radha Kamal Mukherjee: Theory of Social Sciences	4	XII, XIII
	UNIT – V		
6	G.S. Ghurye: Caste		
	G.S. Ghurye: Class	4	XIII
	G.S. Ghurye: Occupation	4	XIV
9 1	G.S. Ghurye: Social Tension	4	XIV, XV
	in a she in tension	of 4	XV

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Coordinator(IQAC) Veena Memorial PG College Veena Campus, Voena Marg, Kamuli-322241

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Lecturer Na	me -	Arvind Kumar Patel
Class	×1.	BA / BA.B.ED. Part
Session	2	2021 - 22
Subject	5	Sociology
Paper II	9	Social Anthropology
	and the second second second	

ED. Part II

Tentative Plan for the Seassion 2021-22

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT-1		
01	Social Anthropology : Definition	1	1
02	Social Anthropology : Nature & Scope	3	I
03	Approaches to the study of Social Anthropology : Structural - Functional approach	3	І, П
04	Approaches to the study of Social Anthropology : Evolutionary approach	3	11
05	Approaches to the study of Social Anthropology : Comparative approach	3	11, 111
	UNIT – II		
06	Marriage : Meaning & Types	4	III
07	Marriage : Theories and Methods of Mate selection	4	III, IV
08	Family : Meaning & Characteristics	4	IV, V
09	Family : Theories & Types	4	V
10	Family : Kinship Organisation	4	V, VI
	UNIT – III		
11	Culture : Meaning and Theories of Culture Growth	4	VI, VII
12	Religion : Meaning and Theories of Origin	4	VII
13	Religion : Beliefs and Practices	4	VII, VIII
14	Magic : Meaning & Types	3	VIII
15	Magic : Relation with Religion	2	IX
	UNIT – IV		
16	Primitive Economic System : Meaning	2	IX
17	Primitive Economic System : Characteristics	4	IX, X
18	Primitive Economic System : Functioning	4	X
19	Primitive Political System : Meaning	2	XI
20	Primitive Political System : Characteristics	4	XI
21	Primitive Political System : Primitive Law & Customs	4	XII
	UNIT – V		
22	Problems of Tribes in India	4	XII, XIII
23	Tribal Development	4	XIII
24	Tribes in Rajasthan : Bhil	3	XIV
25	Tribes in Rajasthan : Meena	3	XIV
26	Tribes in Rajasthan : Garasiya	3	XV
27	Tribes in Rajasthan : Saharia	3	XV

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PRINCIPAL Veena Memorial PG College Karauli (Raj.)

Lecturer Name -Class -Session -Subject -

Paper I

Arvind Kumar Patel BA / BA,B.ED, Part III

2021 - 22

Sociology

Survey Methods in Social Investigations

Tentative Plan for the Seassion 2021-22

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT -1		
	Scientific Study of Social Phenomena		
01	Natural Sciences & Social Sciences : Relationship	3	I
02	Natural Sciences & Social Sciences : Debate	3	I
03	Social Survey : Meaning	2	II
04	Social Survey : Nature	4	11
05	Social Research : Meaning	2	Ш
06	Social Research : Nature	4	III
07	Scientific Method : Meaning	2	IV
08	Scientific Method : Stages	2	IV
09	Scientific Method : Importance	3	IV,V
	UNIT – II		
	Logic of Social Research		
10	Objectivity & Subjectivity in Sociological Inquiry	3	V
11	Hypothesis : Meaning	2	V
12	Hypothesis : Types	2	VI
13	Hypothesis : Formulation Process	2	VI
14	Primary Data : Meaning and Forms	3	VI, VII
15	Primary Data : Sources	3	VII
16	Secondary Data : Meaning and Forms	3	VII, VIII
17	Secondary Data : Sources	3	VIII
	UNIT – III		
	Tools and Techniques for Data Collection		
18	Observation	3	VIII, IX
19	Interview	2	IX
20	Questionnaire	3	IX
21	Schedule	2	X
22	Case Study Method	3	X
	UNIT - IV		
	Procedure of Selecting Representative Units		
23	Sampling : Meaning	2	X, XI
24	Sampling : Types	4	XI
25	Sampling : Methods for Sample Selection	4	XI, XII
26	Sampling : Its limitations	2	XII
27	Content Analysis	4	XII, XIII
	UNIT – V		
	Quantitative Issues in Social Research		
28	Tabular Presentation of Data : Bivariate	2	XIII
29	Tabular Presentation of Data : Multivariate	2	XIII, XIV
30	Statistical Averages : Meaning and Types	2	XIV
31	Statistical Averages : Calculation of Mean	3	XIV
32	Statistical Averages : Calculation of Median	3	XV
33 /	Statistical Averages : Calculation of Mode	3	XV

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Lecturer Name	a 2	Arvind Kumar Patel
Class	2	BA / BA.B.ED. Part III
Session	8	2021 - 22
Subject		Sociology
Paper II	-	Social Problems in Contemporary India

Tentative Plan for the Seassion 2021-22

NO.	Tentative Plan for the Seassion 2021-22 TOPIC	NO. OF LECTURE	WEEK	
1450				
-	UNIT-1		1	
	Social Problems: Some Conceptual Issues	3	1	
	Cardial Disordarial Operation of the Annual Contraction of the Annual	2	1	
2	Contral Dephame & Social Disorganisation . Renutions	3	I, 11	
3	Social Problems : Theoretical Perspectives	2	11	
4	Social Problems : Types	3	П, Ш	
5	Social Problems : Factors			
	UNIT - II			
	Structural Problems in Contemporary India	6	111, IV	
6	Rural Problems	3	IV	
7	Gender Disparity	3	IV, V	
8	Communalism	3	V	
19	The Problems of Minorities	3	V, VI	
0	1 Casial Categories Scheuulou Casia	3	VI	
1	Problems of Deprived Social Categories : Scheduled Tribes Problems of Deprived Social Categories : Scheduled Tribes			
	UNIT – III	-		
	Familial Problems in Contemporary India	3	VI, VII	
12	Dowry	3	VII	
13	Divorce	2	VII	
14	Child Marriage	3	VIII	
15	Problems of Elderly	3	VIII	
16	Problems of Youth in India	3	1X	
17	Aids Problem			
	UNIT - IV	-		
	UNIT - IV Disorganizational Problems in Contemporary India	4	IX, X	
18	Crime	4	X	
19	Juvenile Delinquency	3	X, XI	
20	Corruption	3	X1	
21	Drug Addiction	3	XI, XII	
22	Terrorism	3	XII	
23	Casteism			
-	UNIT - V			
	Development Problems in Contemporary India	4	XII, XII	
24	Poverty	4	XIII, XI	
25	Unemployment	3	XIV	
26	Illiteracy	3	XIV, XV	
27	Environmental Pollution	3	XV	
20 Problems of Slums		3	XV, XV	
28	Development Induced Displacement		XVI	

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PRINCIPAL Veena Memorial PG College Karauli (Raj.)

Lecturer Name	-
Class	-
Session	-
Subject	-
Paper I	-

Arvind Kumar Patel BA / BA.B.ED. Part I 2020 - 21

- Sociology

Principles of Sociology

Tentative Plan for the Seassion 2020-21

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Nature of Sociology : Meaning of Sociology	1	1
02	The Sociological Perspective	2	I
03	Sociology and other Social Sciences	3	I
04	Scientific & Humanistic Orientation to Sociological Study	3	П
	UNIT - II	2	П
05	Basic Concepts : society	3	III
06	Basic Concepts : Community		III
07	Basic Concepts : Institution	2	and the second se
08	Basic Concepts : Association	2	III, IV
09	Basic Concepts : group	4	IV, V
10	Basic Concepts : Social Structure	3	V,VI
11	Basic Concepts : Status and Role	4	VI
12	Institution : Family & Kinship	4	VII
13	Institution : Religion	3	VII, VIII
14	Institution : Education	2	VIII
	UNIT – III		N.C.C.
15	The Individual & Society : Society	2	VIII
16	The Individual & Society : Culture	3	VIII,IX
17	The Individual & Society : Socialization	4	IX
18	Relation between individual and society	2	X
19	Social Control : Norms, Values and Sanctions	4	X
20	Social Startification : Meaning, form & theories	4	XI
21	Social Mobility : Meaning, form & theories	4	XI, XII
	UNIT – IV		
22	Social Change : meaning and types	2	XII
23	Social Change : Evolution	2	XII
24	Social Change : Revolution	2	XIII
25	Social Change : Progress	2	XIII
26	Social Change : Development	2	XIII
27	Factors of Social Change	2	XIV
28	Social Change theory of Ogburn	2	XIV
29	Social Change theory of Sorokin	2	XIV
30	Social Change theory of Karl Marx	2	XV
	UNIT – V		
31	The uses of Sociology : Introduction () Applied Sociology	2	XV
32	Sociology and Social Problems	3	XV, XV
33	Socielogy and Social Change	2	XVI
34	Sociology & Social Policy and Social Action	3	XVI

Coortenator(IQAC) Veena Memorial PG College Veena Compres, Veena Marg, Kansoli-322241 Veana Memorial PG College Karauli (Raj.)

Veena Memorial PG College, Karauli (Raj.) nd Kumar Patel

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Lecturer Name	-	Arvi
Class	8 3	BA
Session	÷ 1	2020
Subject	2	Soci
Paper II	-	India
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/ BA.B.ED. Part I 0 - 21

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Tentative Plan for the Seassion 2020-21

S. NO.	Tentative Plan for the Seassion 2020-21 TOPIC	NO. OF	WEEK
51-1-57		LECTURE	
	UNIT – I		
01	Cultural and Ethnic Diversity: Historically embedded	2	1
	diversities in respect to Language	2	I
02	Cultural and Ethnic Diversity: Historically embedded	2	
	diversities in respect to Caste	2	I
03	Cultural and Ethnic Diversity: Historically embedded	2	
	diversities in respect to Religious Beliefs and Practices	2	11
04	Cultural and Ethnic Diversity: Historically embedded	-	
_	diversities in respect to Cultural Patterns		
	UNIT – II	2	П
05	The Textual and the Field-View of Indian Society	3	ILIII
06	Concepts of Varna	.4	III, IV
07	Concepts of Ashram	4	IV
08	Concepts of Dharma	3	V
09	Concepts of Karma	3	V
10	Concepts of Purushartha	3	V, VI
11	The Significance of the Field-View	3	<u>v, vi</u>
	UNIT – III		
12	Basic Institutions of Indian Society : Caste	3	VI
13	Basic Institutions of Indian Society : Kinship	3	VI, VII
14	Basic Institutions of Indian Society : Family	3	VII
15	Basic Institutions of Indian Society : Marriage	4	VII, VIII
16	Basic Institutions of Indian Society : Religion	3	VIII
17	Caste and Class: Meaning, Features and Changing Dimensions	4	IX
	UNIT - IV		
18	The Structure and Composition of Indian Society: Villages	3	1X, X
19	The Structure and Composition of Indian Society: Towns	3	X
20	The Structure and Composition of Indian Society: Cities	3	X, XI
21	Rural-Urban Linkages	2	XI
22	Weaker Sections : Tribes	3	XI
23	Weaker Sections : Dalit	3	XII
24	Weaker Sections : Women	3	XII
25	Weaker Sections : Minorities	2	XIII
26	Population Profile and related issues	3	XIII
	UNIT – V		
27	Process of Social Change: Sanskritisation	3	XIII, XIV
28	Process of Social Change: Westernisation	3	XIV
29	Process of Social Change: Urbanisation	3	XIV, XV
30	Planned Change and Transformation in India	3	XV
31	Nation - Building and National Identity	3	XV, XV

Cool Chator(IQAC) Veena Memorial PG College Veena Cammis, Venin Mary, Kennili-1721+1

PRINCIPAL Vesna Memorial PG Colline Karauli (Rat.)

Lecturer Name	5	Arv
Class	5	BA
Session	-	202
Subject		Soc
Paper I	÷	Soc
raper 1		200

ind Kumar Patel / BA.B.ED. Part II 0 - 21iology

ial Thinkers

Tentative Plan for the Seassion 2020-21

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Emile Durkheim: Social Fact	6	1
02	Emile Durkheim: Division of Labour	6	11
03	Emile Durkheim: Suicide	6	Ш
04	Emile Durkheim: Religion	4	IV
_	UNIT – II		
05	Max Weber: Social Action	6	IV, V
06	Max Weber: Bureaucracy	6	V, VI
07	Max Weber: Ideal Type	4	VI, VII
08	Max Weber: Religion	4	VII
	UNIT – III		
09	Karl Marx: Class Struggle	6	VIII
10	Karl Marx: Dialectical Materialism	6	IX
11	Karl Marx: Surplus Value	4	Х
12	Karl Marx: Alienation	4	X, XI
	UNIT – IV		1
13	Radha Kamal Mukherjee: Social Values	4	XI
14	Radha Kamal Mukherjee: Social Ecology	4	XII
15	Radha Kamal Mukherjee: Theory of Social Sciences	4	XII, XIII
	UNIT – V		
16	G.S. Ghurye: Caste	4	XIII
17	G.S. Ghurye: Class	4	XIV
18	G.S. Ghurye: Occupation	4	XIV, XV
19	G.S. Ghurye: Social Tension	5 4	XV

Coordinator(IQAC) Veena Memorial PO College Verna Compris, Verna Marg, Knnudi-322241

PRINCIPAL Veena Memorial PG College Karauli (Rai)

Lecturer Na	me -	Arvind Kumar Patel
Class		BA / BA.B.ED. Part II
Session	15	2020 - 21
Subject	2.83	Sociology
Paper II	14	Social Anthropology

Tentative Plan for the Seassion 2020-21

	Tentative Plan for the Seassion 2020-21		WEEK
s, no.	TOPIC	NO. OF LECTURE	WEEK
_	UNIT - I	1	1
01	Social Anthropology : Definition	1	1
02	Contract Antheopology : Nature & Scope	3	1, 11
03	Approaches to the study of Social Anthropology : Structural -		
04	Approaches to the study of Social Anthropology :	3	п
05	Evolutionary approach Approaches to the study of Social Anthropology : Comparative approach	3	11, 111
	UNIT – II	4	III
06	Marriage : Meaning & Types	4	111, IV
07	Marriage : Theories and Methods of Mate selection	4	1V. V
08	Family : Meaning & Characteristics	4	V
09	Family : Theories & Types	4	V. VI
10	Family : Kinship Organisation		
	UNIT - III	4	VI, VII
11	Culture : Meaning and Theories of Culture Growth	4	VII
12	Religion : Meaning and Theories of Origin	4	VII, VIII
13	Religion : Beliefs and Practices	3	VIII
14	Magie : Meaning & Types	2	IX
15	Magie : Relation with Religion		
	UNIT – IV	2	IX
16	Primitive Economic System : Meaning	4	IX, X
17	Primitive Economic System : Characteristics	4	X
18	Primitive Economic System : Functioning	2	XI
19	Primitive Political System : Meaning	4	XI
20	Primitive Political System : Characteristics	4	XII
21	Primitive Political System : Primitive Law & Customs		
	UNIT – V	4	X11, X11
22	Problems of Tribes in India	4	XIII
23	Tribal Development	3	XIV
24	Tribes in Rajasthan : Bhil	3	XIV
25	Tribes in Rajasthan : Meena	3	XV
26	Tribes in Rajasthan : Garasiya	3	XV
27	Tribes in Rajasthan : Saharia		1

PRINCIPAL

Coordinator(IQAC) Veena Mamorial PG College VeenaCampo, Veena Marg, Kanadi-32234

Veena Memorial PG College Karauli (Raj.)

Lecturer Name	ίε)	Arvind Kumar Patel
Class		BA / BA.B.ED, Part III
Session		2020 - 21
Subject	-	Sociology

Paper 1

Survey Methods in Social Investigations

Tentative Plan for the Seassion 2020-21

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT-1		
	Scientific Study of Social Phenomena		T
01	Natural Sciences & Social Sciences : Relationship	3	1
02	Natural Sciences & Social Sciences : Debate	3	1
03	Social Survey : Meaning	2	 11
04	Social Survey : Nature	4	 []]
05	Social Research : Meaning	2	
06	Social Research : Nature	4	111 1V
07	Scientific Method : Meaning	2	1V 1V
08	Scientific Method : Stages	2	111.00
09	Scientific Method : Importance	3	IV,V
	UNIT – II		
	Logic of Social Research		V
10	Objectivity & Subjectivity in Sociological Inquiry	3	V
11	Hypothesis : Meaning	2	VI
12	Hypothesis : Types	2	VI
13	Hypothesis : Formulation Process	2	VI, VII
14	Primary Data : Meaning and Forms	3	VII
15	Primary Data : Sources	3	VII, VIII
16	Secondary Data : Meaning and Forms	3	VIII
17	Secondary Data : Sources	3	γIII
	UNIT – III		
	Tools and Techniques for Data Collection		VIII, IX
18	Observation	3	IX
19	Interview	3	IX
20	Questionnaire		X
21	Schedule	2	X
22	Case Study Method	3	<u>^</u>
	UNIT – IV		
	Procedure of Selecting Representative Units		X, Xl
23	Sampling : Meaning	2	XI
24	Sampling : Types	4	XI, XII
25	Sampling : Methods for Sample Selection	4	XII
26	Sampling : Its limitations	2	XII, XIII
27	Content Analysis	4	лц, лш
-	UNIT – V		
	Quantitative Issues in Social Research	0	XIII
28	Tabular Presentation of Data : Bivariate	2	XIII, XIV
29	Tabular Presentation of Data : Multivariate 2		XIV
30	Statistical Averages : Meaning and Types 2		XIV
31	Statistical Averages : Calculation of Mean 3		XV
32	Statistical Averages : Calculation of Median	3 0	XV
33	Statistical Averages : Calculation of Mode		AV

Coord Morr(IQAC) Veena Momorial PG College Verna Campio, Vecan Marg, Kanadi-122241

Veena Memorial PG College Karauli (Raj.)

Lecturer Name		Arvind Kumar Patel
Class	-	BA / BA.B.ED. Part III
Session	-	2020 - 21
Subject	÷ .	Sociology
Paper II	-	Social Problems in Contemporary India
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Tentative Plan for the Seassion 2020-21

	Tentative Plan for the Seassion 2020-21		and the second
S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT - I		
	Social Problems: Some Conceptual Issues		1
)1	Social Problems & Social Disorganisation : Meaning	3	1
)2	Social Problems & Social Disorganisation : Relations	2	
03	Social Problems : Theoretical Perspectives	3	1, 11 II
04	Social Problems : Types	2	11,111
05	Social Problems : Factors	3	11, 111
	UNIT – II		
	Structural Problems in Contemporary India		111. IV
06	Rural Problems	6	IV
07	Gender Disparity	3	1V. V
08	Communalism	3	V
09	The Problems of Minorities	3	V, VI
10	Broblems of Deprived Social Categories : Scheduled Caste	3	VI
11	Problems of Deprived Social Categories : Scheduled Tribes	2	**
	UNIT – III		
	Familial Problems in Contemporary India	-	VI, VII
12	Dowry	3	VII
13	Divorce	2	VII
14	Child Marriage	3	VIII
15	Problems of Elderly	3	VIII
16	Problems of Youth in India	3	IX
17	Aids Problem	5	1/4
	UNIT – IV		
	Disorganizational Problems in Contemporary India	4	IX, X
18	Crime	4	X
19	Juvenile Delinquency	3	X, XI
20	Corruption	3	XI
21	Drug Addiction		XI, XII
22	Terrorism	3	XII
23	Casteism	3	70
	UNIT – V		
	Development Problems in Contemporary India	4	XII, XIII
24	Poverty	4	XIII, XIV
25	Unemployment	3	XIV
26	Illiteracy	3	XIV, XV
27	Environmental Pollution	3	XV
28	Problems of Slums	3	XV, XV
29	Development Induced Displacement	3	XVI
30	National Defecation Campaign		1000

Veena Memorial PG College Veena Compos, Veena Man, Kernili 12224

PRINCIPAL Veena Memorial PG College Kareuli (Raj.)

Lecturer Name	-	Arvind Kumar Patel
Class	8	BA / BA.B.ED, Part I
Session	2	2019 - 20
Subject	× .	Sociology
Paper I	2	Principles of Sociology
	care compos	

Tentative Plan for the Seassion 2019-20

S. NO.	TOPIC	NO, OF LECTURE	WEEK
	UNIT – I		
01	Nature of Sociology : Meaning of Sociology	1	I
02	The Sociological Perspective	2	1
03	Sociology and other Social Sciences	3	I
04	Scientific & Humanistic Orientation to Sociological Study	3	П
	UNIT – II		
05	Basic Concepts : society	3	П
06	Basic Concepts : Community	3	III
07	Basic Concepts : Institution	2	III
08	Basic Concepts : Association	2	III, IV
09	Basic Concepts : group	4	IV, V
10	Basic Concepts : Social Structure	3	V,VI
11	Basic Concepts : Status and Role	4	VI
12	Institution : Family & Kinship	4	VII
13	Institution : Religion	3	VII, VII
14	Institution : Education	2	VIII
	UNIT – III		
15	The Individual & Society : Society	2	VIII
16	The Individual & Society : Culture	3	VIII,IX
17	The Individual & Society : Socialization	4	IX
18	Relation between individual and society	2	X
19	Social Control : Norms, Values and Sanctions	4	X
20	Social Startification : Meaning, form & theories	4	XI
21	Social Mobility : Meaning, form & theories	4	XI, XII
	UNIT – IV		
22	Social Change : meaning and types	2	XII
23	Social Change : Evolution	2	XII
24	Social Change : Revolution	2	XIII
25	Social Change : Progress	2	XIII
26	Social Change : Development	2	XIII
27	Factors of Social Change	2	XIV
28	Social Change theory of Ogburn	2	XIV
29	Social Change theory of Sorokin	2	XIV
30	Social Change theory of Karl Marx	2	XV
	UNIT – V		
31	The uses of Sociology : Introduction to Applied Sociology	2	XV
32	Sociology and Social Problems	3	XV, XV
33	Sociology and Social Change	N 2	XVI
34/	Sociology & Social Policy and Social Action	NX 3	XVI

Coordinator(IQAC) Veena Memorial PG Collego Verna Campo, Vena Matg. Kuradi-322241

Veena Memorial PG College Karauli (Raj.)

Veena Memorial PG College, Karauli (Raj.) Laaturar Name Arvind Kumar Patel

Lecturer Name	-	Arvind Kumar Patel
Class	-	BA / BA.B.ED. Part
Session	-	2019-20
Subject	-	Sociology
Paper II	-	Indian Society

Tentative Plan for the Seassion 2019-20

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT-1	2	I
01	Cultural and Ethnic Diversity: Historically embedded	*	74
	diversities in respect to Language	2	1
02	Cultural and Ethnic Diversity: Historically embedded		
	diversities in respect to Caste Cultural and Ethnic Diversity: Historically embedded	2	I
03	diversities in respect to Religious Beliefs and Practices		1
0.4	Cultural and Ethnic Diversity: Historically embedded	2	11
04	diversities in respect to Cultural Patterns		
	diversities in respect to any		
	UNIT – II		11
05	The Textual and the Field-View of Indian Society	3	II,III
06	Concepts of Varna	4	III, IV
07	Concepts of Ashram	4	IV
08	Concepts of Dharma	3	V
09	Concepts of Karma	2	V
10	Concepts of Purushartha	3	V, VI
11	The Significance of the Field-View	3	V, VI
			-
	UNIT – III	3	VI
12	Basic Institutions of Indian Society : Caste	3	VI, VII
13	Basic Institutions of Indian Society : Kinship	3	VII
14	Basic Institutions of Indian Society : Family	4	VII, VIII
15	Basic Institutions of Indian Society : Marriage	3	VIII
16	Pagin Institutions of Indian Society : Religion	4	IX
17	Caste and Class: Meaning, Features and Changing Dimensions	4	
L	UNIT-IV	3	1X, X
18	The Structure and Composition of Indian Society: Villages	3	X
19	The Structure and Composition of Indian Society: Towns	3	X, XI
20	The Structure and Composition of Indian Society: Cities	2	XI
21	Rural-Urban Linkages	3	XI
22	Weaker Sections : Tribes	3	XII
23	Weaker Sections : Dalit	3	XII
24	Weaker Sections : Women	2	XIII
25	Weaker Sections : Minorities Population Profile and related issues	3	XIII
26	Population Prome and related issues		
	UNIT – V	2	XIII, XIV
27	Process of Social Change: Sanskritisation	3	XIV
28	Process of Social Change: Westernisation	3	XIV, XV
29	Process of Social Change: Urbanisation	3	XV
and the second design of the s	Planned Change and Transformation in India		XV, XV
30	Nation - Building and National Identity	3	X

Coord fator (10AC) Veena Memorial PG Collego Veena Campos Veena Marg, Vanadi-12/1341

PRINCPAL Vaena Memorial PG Colleg+ Karauli (Raj.)

Lecturer Name	2
Class	5
Session	
Subject	
Paper 1	

Arvind Kumar Patel BA / BA.B.ED. Part II 2019 - 20 Sociology Social Thinkers

Tentative Plan for the Seassion 2019-20

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Emile Durkheim: Social Fact	6	1
02	Emile Durkheim: Division of Labour	6	П
03	Emile Durkheim: Suicide	6	III
04	Emile Durkheim: Religion	4	IV
	UNIT – II		
05	Max Weber: Social Action	6	IV, V
06	Max Weber: Bureaucracy	6	V, VI
07	Max Weber: Ideal Type	4	VI, VII
08	Max Weber: Religion	4	VII
	UNIT – III		
09	Karl Marx: Class Struggle	6	VIII
10	Karl Marx: Dialectical Materialism	6	IX
11	Karl Marx: Surplus Value	4	X
12	Karl Marx: Alienation	4	X, XI
	UNIT – IV		
13	Radha Kamal Mukherjee: Social Values	4	XI
14	Radha Kamal Mukherjee: Social Ecology	4	XII
15	Radha Kamal Mukherjee: Theory of Social Sciences	4	XII, XIII
	UNIT – V		
16	G.S. Ghurye: Caste	4	XIII
17	G.S. Ghurye: Class	4	XIV
18	G.S. Ghurye: Occupation	4	XIV, XV
19	G.S. Ghurye: Social Tension	4 XX	XV

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- PRINCIPAL Veena Memorial PG College Karauli (Rai 1

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Lecturer Na	me -	Arvind Kumar Patel
Class		BA / BA.B.ED. Part II
Session	- av 2	2019 - 20
Subject		Sociology
Paper II		Social Anthropology
Tentative I	Plan for t	the Seassion 2019-20

S. NO.	Tentative Plan for the Seassion 2019-20 TOPIC	NO. OF LECTURE	WEEK
. 11501		Lacrost	
	UNIT - 1	1	1
1	Social Anthropology : Definition	3	I
)2		3	1, 11
03	Approaches to the study of Social Antihopology . Sudetana		
0.2	in a second b	3	п
04	Approaches to the study of Social Anunopology .		
		3	11, 111
05	Approaches to the study of Social Anthropology .		
	Comparative approach		
			-
	UNIT – II	4	п
06	Marriage : Meaning & Types	4	III, IV
07	Marriage : Meaning & Types Marriage : Theories and Methods of Mate selection	4	1V, V
08	Family : Meaning & Characteristics	4	V
09	Family : Theories & Types	4	V, VI
10	Family : Kinship Organisation		
	UNIT - III	4	VI, VII
11	Culture Meaning and Theories of Culture Growth	4	VII
12	Religion : Meaning and Theories of Origin	4	VII, VIII
13	Religion : Beliefs and Practices	3	VIII
14	Magic : Meaning & Types	2	IX
15	Magic : Relation with Religion		
1.2	-		
	UNIT - IV	2	IX
16	Primitive Economic System : Meaning	4	1X, X
17	Brimitive Economic System : Characteristics	4	X
18	Primitive Economic System : Functioning	2	XI
19	Deimitive Political System : Meaning	4	XI
20	n Caleal System (haracteristics	4	XII
21	Primitive Political System : Primitive Law & Customs		
	UNIT – V	4	XII, XI
22	Problems of Tribes in India	4	XIII
23	Tribal Development	3	XIV
24	Tribes in Rajasthan : Bhil	3	XIV
24	Tribes in Rajasthan : Meena	3	XV
25	Tribes in Rajasthan : Garasiya	3	XV
26	Tribes in Rajasthan : Saharia	3	

34 PRINCIPAL . Veena Memorial PG College Karauli (Raj.)

Coordientar(IQAC) Veena Memorial PG College Veens Campus, Veena Marg. Kuraoli-3222-

Lecturer Na	me -	Arvind Kumar Patel
Class		BA/BA.B.ED. Part III
Session		2019 - 20
Subject	<u></u>	Sociology
Paper 1		Survey Methods in Socia

Survey Methods in Social Investigations -

Tentative Plan for the Seassion 2019-20

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT - I		
	Scientific Study of Social Phenomena		
01	Natural Sciences & Social Sciences : Relationship	3	1
02	Natural Sciences & Social Sciences : Debate	3	1
03	Social Survey : Meaning	2	II
04	Social Survey : Nature	4	II
05	Social Research : Meaning	2	III
06	Social Research : Nature	4	111
07	Scientific Method : Meaning	2	IV
08	Scientific Method : Stages	2	IV
09	Scientific Method : Importance	3	IV,V
_	UNIT – II		
	Logic of Social Research		
10	Objectivity & Subjectivity in Sociological Inquiry	3	V
11	Hypothesis : Meaning	2	V
12	Hypothesis : Types	2	VI
13	Hypothesis : Formulation Process	2	VI
14	Primary Data : Meaning and Forms	3	VI, VII
15	Primary Data : Sources	3	VII
16	Secondary Data : Meaning and Forms	3	∨п, ∨ш
17	Secondary Data : Sources	3	VIII
	UNIT – III		
	Tools and Techniques for Data Collection		2000-05
18	Observation	3	VIII, IX
19	Interview	2	IX
20	Questionnaire	3	IX
21	Schedule	2	X
22	Case Study Method	3	X
	UNIT – IV		
	Procedure of Selecting Representative Units		
23	Sampling : Meaning	2	X, XI
24	Sampling : Types	4	XI
25	Sampling : Methods for Sample Selection	4	XI, XII
26	Sampling : Its limitations	2	XII
27	Content Analysis	4	XII, XIII
	UNIT - V		
	Quantitative Issues in Social Research		
28	Tabular Presentation of Data : Bivariate	2	XIII
29	Tabular Presentation of Data : Multivariate	2	XIII, XIV
30	Statistical Averages : Meaning and Types	2	XIV
31	Statistical Averages : Calculation of Mean	3	XIV
32	Statistical Averages : Calculation of Median	3	XV
33 /	Statistical Averages : Calculation of Mode	Elmont and a second	XV

Coordinator(IQAC) Veena Memorial PG College Vera Carpa, Veca Mag, Karadi (2004)

PRINCIPAL Veena Memorial PG College Karauli (Rai)

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Toutative Pla	n fo	r the Scassion 2019-20	
Paper II			indexes a second
Subject	2	Sociology Social Problems in Conte	mporary India
Session	1		
Class	2	2019 - 20	
Lecturer Name		BA / BA.B.ED. Part III	
Her Stranger and Stranger		Arvind Kumar Patel	

Tentative Plan for the Seassion 2019-20		WEEK
TOPIC	NO. OF LECTURE	WEEK
UNIT - 1		T
Social Problems: Some Conceptual Association		
Social Problems & Social Disorganisation : Relations		1
Social Problems & Social Distriganisation (Testings		1, 11
Social Problems : Theoretical Perspectives		11
Social Problems : Types	3	11, 111
Social Problems : Factors	_	
UNIT - II		
Structural Problems in Contemporary man	6	111, 1V
Rural Problems	3	IV
Gender Disparity	3	IV, V
Communalism	3	V
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	V, V1
T Control Control Control Scheduled Charte	3	VI
Problems of Deprived Social Categories : Scheduled Troes		
UNIT - III		-
Familial Problems in Contemporary India		VI, VII
		VII
		VII
		VIII
Problems of Fiderly		VIII
Problems of Youth in India		IX
Aids Problem		
Austrouvia		
LINIT - IV		
Diagraphizational Problems in Contemporary India		IX, X
	And a state of the	X
		X, XI
		XI
Corruption		X1, X11
Drug Addiction		XII
	3	
Casteism		
UNIT - V		XII, XII
		XIII, XI
		XIII, XI
11literacy		XIV, XV
Environmental Pollution		XV
	3	XV, XV
Development Induced Displacement National Defecation Campaign	3	XVI
	UNIT - 1 Social Problems: Some Conceptual Issues Social Problems & Social Disorganisation : Meaning Social Problems & Social Disorganisation : Relations Social Problems : Theoretical Perspectives Social Problems : Eactors UNIT - II Structural Problems in Contemporary India Rural Problems of Minorities Problems of Deprived Social Categories : Scheduled Caste Problems of Deprived Social Categories : Scheduled Tribes UNIT - III Familial Problems in Contemporary India Dowry Divorce Child Marriage Problems of Elderly Problems of Youth in India Aids Problem UNIT - IV Disorganizational Problems in Contemporary India Crime Juvenile Delinquency Corruption Drug Addiction Terrorism Casteism UNIT - V Development Problems in Contemporary India Poverty Unemployment Illiteracy Environmental Pollution Problems of Slums	TOPIC DOCURE UNIT - 1 IECTURE Social Problems: Some Conceptual Issues 3 Social Problems: Some Conceptual Issues 3 Social Problems: Social Disorganisation : Relations 3 Social Problems: Theoretical Perspectives 2 Social Problems: Techerical Perspectives 2 Social Problems: Techerical Perspectives 3 Social Problems in Contemporary India 6 Rural Problems in Contemporary India 6 Gender Disparity 3 Communalism 3 Problems of Deprived Social Categories : Scheduled Caste 3 Problems of Deprived Social Categories : Scheduled Tribes 3 Dowry 3 Divorce 2 Child Marriage 2 Problems of Elderly 3 Problems of Youth in India 3 Aids Problem 4 UNIT - IV 1 Disorganizational Problems in Contemporary India 3 Drug Addiction 3 Terrorism 3 Corruption 3

Veena Memorial PG Cottoe Veena Campia, Veena Marg, Namos J.

Veena Memorial PG Collec Karauli (Raj.)

Lecturer Name -		Arvind Kumar Patel
Class	1	BA / BA.B.ED. Part
Session		2018 - 19
Subject		Sociology
Paper I	14	Principles of Sociolog
The second second	and the second	

ED. Part I

Sociology

Tentative Plan for the Seassion 2018 - 19

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT – I		
01	Nature of Sociology : Meaning of Sociology	1	I
02	The Sociological Perspective	2	1
03	Sociology and other Social Sciences	3	i
04	Scientific & Humanistic Orientation to Sociological Study	3	n n
	UNIT – II		
05	Basic Concepts : society	3	П
06	Basic Concepts : Community	3	III
07	Basic Concepts : Institution	2	Ш
08	Basic Concepts : Association	2	III, IV
09	Basic Concepts : group	4	IV, V
10	Basic Concepts : Social Structure	3	
11	Basic Concepts : Status and Role	4	V,VI VI
12	Institution : Family & Kinship	4	VI
13	Institution : Religion	3	VII, VIII
14	Institution : Education	2	VIII
	UNIT - III		
15	The Individual & Society : Society		
16	The Individual & Society : Culture	2	VIII
17	The Individual & Society : Socialization	3	VIII,IX
18	Relation between individual and society	4	IX
19	Social Control : Norms, Values and Sanctions	2	Х
20	Social Startification : Meaning, form & theories	4	X
21	Social Mobility : Meaning, form & theories	4	XI
		4	XI, XII
	UNIT – IV		
22	Social Change : meaning and types		
23	Social Change : Evolution	2	XII
24	Social Change : Revolution	2	XII
25	Social Change : Progress	2	XIII
26	Social Change : Development	2	XIII
27	Factors of Social Change	2	XIII
.8	Social Change theory of Ogburn	2	XIV
.9	Social Change theory of Sorokin	2	XIV
0	Social Change theory of Karl Marx	2	XIV XV
	JNIT – V		
	The uses of Sociology : Introduction to Applied Sociology		
	Sociology and Social Problems	2	XV
	Sociology and Social Problems	23	XV, XVI
	Sociology & Social Policy and Social Action	2	XVI
		RINCIPAL	XVI

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Veana Memorial PG College Karauli (Raj.)

Lecturer Na	me -	Arvind Kumar Patel
Class	- ¥ - 3	BA / BA.B.ED, Part I
Session	-	2018 - 19
Subject	30	Sociology
Paper II	-	Indian Society
1.2. 1.2. 1.2. 1.1.1.1.1.1.1.1.1.1.1.1.1	CONTRACTOR DESCRIPTION	2010 10

Tentative Plan for the Seassion 2018 - 19

	Tentative Plan for the Seassion 2018 - 19		WEEK
5. NO.	TOPIC	NO. OF LECTURE	WEEK
		Lines	
	UNIT-1	2	1
)1	Cultural and Ethnic Diversity: Historically embedded		
<i></i>	2	2	1
02	Cultural and Ethnic Diversity: Historically encoded		
14		2	1
03	I I Dahaio Diversity' Historically childedded		
0.7	a manual to republic the second to the second to the second	2	11
04	Culturel and Ethnic Diversity: Historicany embedded	(T)	
0.1	diversities in respect to Cultural Patterns		
	UNIT-II	3	11
05	The Textual and the Field-View of Indian Society	4	11,111
06	Concepts of Varna	4	III, IV
07	Concepts of Ashram	3	IV
08	Concepts of Dharma	2	V
09	Concepts of Karma	3	V
10	Concepts of Purushartha	3	V, VI
La	The Significance of the Field-View		
11	The organization		
	UNIT – III	3	VI
10	Pagin Institutions of Indian Society : Caste	3	VI, VII
12	Devia Institutions of Indian Society : Kinship	3	VII
	P is Institutions of Indian Society : Failing	4	VII, VIII
14	De : Lastitutions of Indian Society : Marriage	3	VIII
15	ELadion Spendru Renguin	4	IX
16	Basic Institutions of Indian Society Preug Caste and Class: Meaning, Features and Changing Dimensions	4	
17	Casic and Chast to g		
	UNIT - IV	3	IX, X
10	I Commonition of Indian Society, vinages		X
18	and Composition of Indian Society, round	3	X, XI
19	The Structure and Composition of Indian Society: Cities		Xl
20	Rural-Urban Linkages	2 3	XI
21	Weaker Sections : Tribes	3	XII
22	Weaker Sections : Dalit		XII
23	Weaker Sections : Women	3	XIII
24	Weaker Sections : Minorities	2	XIII
25	Population Profile and related issues	3	All
26	Population Frome and reason		
	UNIT – V		XIII, XI
	Process of Social Change: Sanskritisation	3	XIII, XI
27	Process of Social Change: Westernisation	3	
28	Process of Social Change: Urbanisation Process of Social Change: Urbanisation	3	XIV, X XV
29	Process of Social Change, Croansaton Planned Change and Transformation in India	3 لي	
30	Vation - Building and National Identity	93	XV, XV
31	Nation - Building and National Reently	Carriel	

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Veena Memorial PG College, Karauli (Raj.) Lecturer Name - Arvind Kumar Patel

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Lecturer Name		1
Class	×	1
Session	54 Y	2
Subject	-	S
Paper I		5

BA / BA.B.ED. Part II 2018 - 19 Sociology

Paper I - Social Thinkers Tentative Plan for the Seassion 2018 - 19

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT - I	6	1
01	Emile Durkheim: Social Fact	6	II
02	Emile Durkheim: Division of Labour	6	III
03	Emile Durkheim: Suicide	4	IV
04	Emile Durkheim: Religion		
	UNIT – II	6	IV, V
05	Max Weber: Social Action	6	V. VI
06	Max Weber: Bureaucracy	4	VI, VII
07	Max Weber: Ideal Type	4	VII
08	Max Weber: Religion	-4	11
	UNIT – III	6	VIII
09	Karl Marx: Class Struggle	6	IX
10	Karl Marx: Dialectical Materialism	4	X
11	Karl Marx: Surplus Value	4	X, XI
12	Karl Marx: Alienation	4	7,74
	UNIT – IV	4	XI
13	Radha Kamal Mukherjee: Social Values	4	XII
14	Radha Kamal Mukherjee: Social Ecology	4	XII, XIII
15	Radha Kamal Mukherjee: Theory of Social Sciences	4	741, 7417
	UNIT – V	4	XIII
16	G.S. Ghurye: Caste	4	XIV
17	G.S. Ghurye: Class	4	XIV, XV
18	G.S. Ghurye: Occupation 4		XIV, AV
19	G.S. Ghurye: Social Tension	- 4 · · ·	

Coordinator(IQAC) Veena Memorial PG College Veena Compres, Veena Marg, Kenadi-3222-6

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Veena Memorial PG College Karauli (Raj 1

Lecturer Na		Arvind Kumar Patel
Class		BA / BA.B.ED. Part II
Session		2018 - 19
Subject	8	Sociology
Damag II	-	Social Anthropology
Tentative I	Plan for	the Seassion 2018 - 19

WEEK NO. OF TOPIC LECTURE S.NO. 1 UNIT-1 1 Social Anthropology : Definition 1 3 Social Anthropology : Nature & Scope 01 1.11 Approaches to the study of Social Anthropology : Structural -3 02 03 II Functional approach 3 Approaches to the study of Social Anthropology : 04 11, 111 Evolutionary approach 3 Approaches to the study of Social Anthropology : 05 Comparative approach 111 4 UNIT-II Marriage : Meaning & Types III. IV 4 Marriage : Theories and Methods of Mate selection 06 IV.V 4 07 Family : Meaning & Characteristics V 4 08 Family : Theories & Types V, VI 4 09 Family : Kinship Organisation 10 VI. VII 4 UNIT-III Culture : Meaning and Theories of Culture Growth VII 4 Religion : Meaning and Theories of Origin 11 VII, VIII 4 12 Religion : Beliefs and Practices VIII 3 13 Magic : Meaning & Types IX 2 14 Magie : Relation with Religion 15 IX 2 UNIT-IV Primitive Economic System : Meaning IX, X 4 Primitive Economic System : Characteristics 16 X 4 Primitive Economic System : Functioning 17 XI 2 18 Primitive Political System : Meaning XI 4 Primitive Political System : Characteristics 19 XII 4 Primitive Political System : Primitive Law & Customs 20 21 XII, XIII UNIT-V 4 Problems of Tribes in India XIII 4 22 XIV Tribal Development 3 23 Tribes in Rajasthan : Bhil XIV 3 24 Tribes in Rajasthan : Meena XV 3 25 Tribes in Rajasthan : Garasiya XV 3 26 Tribes in Rajasthan : Saharia 27

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Veena Momorial PG College Vena Carros, Vena Mars, Vanail-201-5.

Veena Memonal PG College Karauli (Rai)

Veena Memorial PG College, Karauli (Raj.)

Lecturer Na	me -	Arvind Kumar Patel
Class	24	BA / BA,B,ED, Part III
Session	-	2018 - 19
Subject	-	Sociology
Paper I		Survey Methods in Socia

Survey Methods in Social Investigations -

Tentative Plan for the Seassion 2018 - 19

S. NO.	TOPIC	NO. OF LECTURE	WEEK
	UNIT - I		
	Scientific Study of Social Phenomena		
01	Natural Sciences & Social Sciences : Relationship	3	1
02	Natural Sciences & Social Sciences : Debate	3	1
03	Social Survey : Meaning	2	11
04	Social Survey : Nature	4	11
05	Social Research : Meaning	2	10
06	Social Research : Nature	4	III
07	Scientific Method : Meaning	2	IV
08	Scientific Method : Stages	2	IV
09	Scientific Method : Importance	3	IV,V
	UNIT – II		
	Logic of Social Research		
10	Objectivity & Subjectivity in Sociological Inquiry	3	V
11	Hypothesis : Meaning	2	V
12	Hypothesis : Types	2	VI
13	Hypothesis : Formulation Process	2	VI
14	Primary Data : Meaning and Forms	3	VI, VII
15	Primary Data : Sources	3	VII
16	Secondary Data : Meaning and Forms	3	VII, VIII
17	Secondary Data : Sources	3	VIII
	UNIT – III		
	Tools and Techniques for Data Collection		
18	Observation	3	VIII, IX
19	Interview	2	IX
20	Questionnaire	3	IX
21	Schedule	2	X
22	Case Study Method	3	X
	UNIT – IV		
	Procedure of Selecting Representative Units		
23	Sampling : Meaning	2	X, XI
24	Sampling : Types	4	XI
25	Sampling : Methods for Sample Selection	4	XI, XII
26	Sampling : Its limitations	2	XII
27	Content Analysis	4	XII, XIII
	UNIT – V		
	Quantitative Issues in Social Research		
28	Tabular Presentation of Data : Bivariate	2	XIII
29	Tabular Presentation of Data : Multivariate	2	XIII, XIV
30	Statistical Averages : Meaning and Types	2	XIV
31	Statistical Averages : Calculation of Mean	3	XIV
32	Statistical Averages : Calculation of Median	3 -	XV
33	Statistical Averages : Calculation of Mode	3,0	XV

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Veena Memorial PG College, Karauli (Raj.)

Lecturer Nan	ne -	
Class	-	BA / BA.B.ED. Part III
Session	. e.	2018 - 19
Subject	2	Sociology
Paper II	2	Social Problems in Contemporary India

Tentative Plan for the Seassion 2018 - 19

S. NO.	Tentative Plan for the Seassion 2018 - 19 TOPIC	NO, OF LECTURE	WEEK
2			
	UNIT -1 Social Problems: Some Conceptual Issues		1
	Social Problems: Some Conceptual as Social Problems & Social Disorganisation : Meaning	3	1
0	Social Problems & Social Disorganisation : Relations	2	1,11
2	Social Problems & Social Disorganisation	3	1, 11
)3	Social Problems : Theoretical Perspectives	2	11,111
)4	Social Problems : Types	3	11, 111
05	Social Problems : Factors		
	UNIT - II		117 IV
	Structural Problems in Contemporary India	6	III, IV
06	Rural Problems	3	IV
07	Gender Disparity	3	<u>IV, V</u>
08	Communalism	3	V
09	The Problems of Minorities Problems of Deprived Social Categories : Scheduled Caste Problems of Deprived Social Categories : Scheduled Tribes	3	V. VI V1
10	Problems of Deprived Social Categories - Scheduled Tribes	3	VI
11	Problems of Deprived Social Categories : Scheduled Tribes Problems of Deprived Social Categories : Scheduled Tribes		
1	UNIT - III		
	Familial Problems in Contemporary India	3	V1, VII
12	Dowry	3	VII
13	Divorce	2	VII
14	Child Marriage	3	VIII
15	Problems of Elderly	3	VIII
16	Problems of Youth in India	3	1X
17	Aids Problem		
	UNIT - IV		
-	UNIT - IV Disorganizational Problems in Contemporary India	4	IX, X
10	Crime	4	X
18	Juvenile Delinquency	3	X, XI
19	Corruption	3	XI
20	Drug Addiction	3	X1, X11
21	Terrorism	3	XII
22	Casteism		
	UNIT - V		
	UNIT - V Development Problems in Contemporary India	4	XII, XII
-	Poverty	4	XIII, XI
24	Unemployment		XIV
25	Illiteracy	3	XIV, XV
26	Environmental Pollution	3	XV
27	Problems of Slums	3	XV. XV
28	Development Induced Displacement	3	XVI
29 30	National Defecation Campaign		1

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PRINCIPAL Visane Memorial PG College Karach (Raj)

eachers Name:- Dhecraj Kumar Wadiya

Session -2022-23

Subje	et/ Papers:- History of India (upto 1200 A.D.)	Class:- B.A., No. of Lecture	Week
No.	TOPIC	No. of Lecture	freek
	UNIT-I	2	1
1.	Main Sources of ancient Indian history	3	Ť
2.	Prehistoric Cultures in india, Harappan	3	П
3	Culture-Evolution, Vinagar	5	
4.	The Problem of city planning, economy, religion	5	11,111
5.	And relationship with other people.	2	111
6.	Society, state, meaning and condition in vedic essence	4	IV
60	UNIT-II		137.32
7.	The rise of Magadha to Nando	3	IV,V
8.	Jainism and Buddhism	4	V
9.	Magadha Empire and role	2	V,VI
10.	Of Chandragupta in Indian culture	3	VI
11.	Ashoka Nipia, Dhamma	2	VI
12.	Solar Administration	4	VII
13.	Mauryan art and architecture due to the	1	VII
14.	Decline of the Maurya Empire	4	VII,VIII
14.	UNIT-III		
15.	Satavahana era and foreign powers	3	VIII
	Satavanana era and torega portes	1	1X
16.	Pushyamitra	1	IX
17.		1	IX
18.	Rudradaman Contributions and achievements of Kanishka	4	IX,X
19.		2	Х
20.	Economic copy of the pre- Gupta period	1	Х
21.	In relation to trade-commerce	4	X,X1
22.	Kushan Arts and Crafts	4	XI
23.	Sangam Age		
	UNIT-IV	1	XII
24.	Gupta Dynasty - chandraguptar	3	XII
25.	Samudragupta	2	XII
26.	Chandragupta II	-	XIII
27.	Skandagupta	3	XIII
28.	Features of Gupta Administration	2	XIII
29.	Land Revenue System	4	XIV
30.	Gupta Economy	1	XIV
31.	Trade and Commerce		XIV
32.	Gupta Art, Architectural	4	XV
33.	Literature philosophy, Science and Technology	2	~~
-	UNIT-V		XV,XVI
34.	Formation and Expansion of the Indo-Vardhan Empire of	3	XVI
35.	The post-Gupta period	2	and the second se
36.	Government Religion, Art Culture-Pallav	2	XVI
37.	Chola Chalukyas and Rashtrakutas	4	XVII
38.	Features of Chola-Chalukya Administration	2	XVII
39.	Outspoken struggle	2	XVIII
40.	Vigraharaj Chauhan	1	XVIII
41.	Bhoj Parmar	1	XVIII
42.	Achievements of Mihikul	1	XVIII
43.	A D L L L L L L L L L L L L L L L L L L	2	J XVIII,XD

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PRINCIPAL Visena Memorial PG College Karaulto Pa

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Teachers Name:- Dheeraj Kumar Wadiya

Session -20.....

Subject/ Papers:- II Outline of History of Western World

Class:- B.A., B.A.B.ED.-I

S.No.	TOPIC	No. of Lecture	WEEK
	UNIT-I		
1.	Beginning of New Age	1	I
2.	Renaissance-	1	I
3.	Meaning ,Reasons, Expansion	4	1
4.	Development of Literature Art Science	4	II
5.	Important of renaissance	3	11,111
6.	Reformation movement- Cause	3	Ш
7.	Contribution of early reformer, Martin Luther	2	Ш
8.	Progress results and impact of the movement	2	IV
9.	America's war of Independence	5	IV,V
	UNIT-II		
10.	Agricultural and Industrial	5	V
11.	French Revolution	10	VI,VII
12.	Napoleon Bonaparte	5	VII,VIII
	UNIT-III		COLUMN DOLLARS
13.	Era of reaction	2	VIII
14.	Unification of Italy	3	VIII.IX
15.	Unification of Germany	3	IX
16,	Crimea War and Berlin Conference	4	IX,X
17.	Exploitation of Asia, Africa	3	X
18.	Latin American States by Europeans	2	XI
	ÚNIT-IV		10.000
19,	World war-I cause, Events, consequences	5	XI,XII
20.	Versailles Treaty	1	XII
21.	Russian Revolution	2	XII
22.	Worldwide Economic Depression	2	XII
23.	Zazism and Fascism	4	XIII
	UNIT-V		
24.	World war -II Cause Events, Consequences	5	XIII,XIV
25.	League of Nations	2	XIV
26.	United Nations organization	2	XIV,XV
27.	Cold war	2	XV
28.	Non-Aligned Movement	2	XV
29.	Dissolution of the Soviet Union	7	XV,XVI

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PR CIPAL Veena Memorial PG College Karauli (Rai

Teachers Name:- Dheeraj Kumar Wadiya

Session -2023....23

Subject/ Papers:- I Medieval India

Class:- B.A., B.A.B.ED.-II

S.No.	TOPIC	No. of Lecture	Week
	UNIT-I		n
1.	(A) Turkish invasion and Rajput resistance	3	I
2.	(B)Establishment of Delhi Sultanate	3	1
3.	Muhammad Ghori	2	П
4.	Iltutmish	2	11
5.	Rajiya	2	II
6.	Balwan	2	Ш
7.	(C) Khilji Imperialism	3	III
8.	Expansion in Northern India	3	III.IV
9.	Expansion in Southern India	3	IV,V
10.	(D) Economic policies of Alauddin Khilji	2	V
	UNIT-II		
11.	Evaluation of Muhammad bin Tughluq's	2	V
12.	Plans as a Failure Ruler	3	VI
13.	Firoz Tughlaq Agricultural	2	VI
14.	Reforms public works	2	VI,VII
15.	Vijayanagara and the Bahmani empire because	2	VII
16.	Of their drinking	2	VII
17.	The social condition of the Sultanate	3	VII,VIII
	UNIT-III		
18.	Political life condition only at the time of Babur's invasion	3	VIII
19.	Founding of the Mughal Empire	3	VIII.IX
20.	The literary status of Babur	2	IX
21.	Humayun's initial difficulties	2	IX
22.	Due to failure	2	X
23.	Sher shar Empire Expansion	3	X
24.	Expansion and Consolidation of the Mughal Empire under Akbar	4	X,XI
	UNIT-IV		
25.	Jahangir	2	XI
26.	Jahangir and Mewar	2	XI.XII
27.	Role of Nur Jahan in the Mughal Court	2	XII
28.	Shahjahan's time	2	XII
29.	Aurangzeb's Southern Policy	2	XII,XIII
30.	Decline of the Mughal Empire	2	XIII
31.	The Rise of the Marathas	2	XIII
32.	Achievements of Shivaji	2	XIII,XIV
33.	Administration	2	XIV
	UNIT-V		
34.	Religious policy of Mughals	1	XIV
35.	Rajput Policy	1	XIV
36.	Mughal Literary	3	, XIV,XV

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Painting	2	XV
Mughal Administration	4	XV,XVI
Mansabdari System	2	XVI
Land Revenue Management	2	XVI
Medieval Bhakti Movement	3	XVII
Sufi Saints	2	XVII
Medieval Economic Conditions	2	XVII,XVIII
Trade and Commerce	3	XVIII
	Mughal Administration Mansabdari System Land Revenue Management Medieval Bhakti Movement Sufi Saints Medieval Economic Conditions	Mughal Administration4Mansabdari System2Land Revenue Management2Medieval Bhakti Movement3Sufi Saints2Medieval Economic Conditions2

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Weene Memorial PG College Karauli (Raj.)

Teachers Name:- Dheeraj Kumar Wadiya

Subject/ Papers:- History-II (Raj. History)

Class:- B.A., B.A.B.ED.-II

S.No.	TOPIC	No. of Lecture	Week
	UNIT-I		
1.	An outline of proto-historic culture	3	1
2,	Kalibanga	2	I
3.	Ahar	2	I,II
4.	Bairath and other new sites	3	11
5.	Other new sites	2	П
6.	An outline of Matsya Janapad	2	III
7.	Special reference to Shivi Janpadas	2	III
8.	Special reference to Malav Janpadas	2	III
9.	Various theories of origin of Rajputs	3	IV
10.	Early Chauhan rulers	2	IV
11.	Prithvi Raj Chauhan III	3	IV,V
	UNIT-II		
12.	Achievements of Maharana Kumbha	5	V,VI
13.	Rise of Marwar under Maldeo	3	VI
14.	Resistance of Rajput rulers against Turks upto 1526 A.D.	2	VI
15.	The policy of collaboration	2	VII
16.	Mughals and resistance of Rajput	2	VII
17.	Special reference to Man Singh of Amber	2	VII
18.	Rai Singh of Bikaner	2	VIII
19.	Rana Sanga of Mewar	3	VIII
20.	Maharana Pratap of Mewar	3	VIII,IX
21.	Chandrasen of Marwar	2	1X
22.	Durgadas of Marwar	3	IX,X
	UNIT-III		
23.	Causes of Maratha penetration in Rajputana	3	Х
24.	Results of Maratha penetration in Rajputana	2	X.XI
25.	Circumstances and consequence of the treaties of 1818 between Rajput rulers and company	3	XI
26.	Special Seference to Mewar.	1	XI
27.	Special Seference to Marwar.	1	X1
28.	Special Seference to Kota.	2	XII
29.	Uprising of 1857-causes and results	2	XII
30.	Special reference to Kota.	2	XII
31.	Causes of political awakening in Rajasthan.	2	XIII
44+	UNIT-IV		
32.	Peasant movement in Rajasthan	2	XIII
33.	Special reference to Bijolia	5	XIII,XIV
34.	Special reference to Barad	1	XIV
35.	Tribal Movements	3	XIV,XV
36.	Contribution of Govind Giri	2	XV
50.	Contribution of Motifal Tejawat.	2	XV

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		10	XV,XVI
38.	Prajamandal movement in Rajasthan	6	XVI,XVII
39.	Integration of Rajasthan (1948-1956)		-
221	UNIT-V	2	XVII
40.	Various Schools of Rajasthani Painting	1	XVII
41.	Special reference to Bundi	1	XVIII
42.	Special reference to Kota	2	XVIII
43.	Fort architecture	1	XVIII
44.	Special reference to Ranthambore	1	XVIII
45.	Special reference to Gagron	2	XVIII,XIX
46.	Consist reference to Chitter.	2	XIX
47.	1 Development of Rajastham Literature	2	XIX
48.	Special reference to Charan Literature	2	XIX,XX
49.	Di diti movement in Rajasthan	1	XX
50.	a the forance to Meera in Kalasulan	1	XX
51.	Samial reference to Saint Dadu in Rajastinin	1	XX
52.	Consist reference to Pipa in Rajastian	3	XX,XXI
53.	g wiel reference to Sufism in Kajasman	5	XXI
54.	Arya samaj and its effectes in Rajasthan		

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Waena Memonal PG College Karauli (Raj.)

Teachers Name:- Dheeraj Kumar Wadiya

Subject/ Papers:- I Modern Indian History

Class:- B.A., B.A.B.ED.-III

S.No.	TOPIC	No. of Lecture	Week
	UNIT-I		16052200
1.	Third Battle of Panipat and its consequences	4	I
2.	Marathas Phadnavis	3	1,11
3.	Mahadi ji Sindhia	3	П
4.	Nana Phadnavis	3	11,111
5.	Maratha struggle with the British	3	III
6.	Causes of the failure of the Marathas	2	III
	UNIT-II		
7.	Establishment of British rule in Bengal	3	IV
8.	Consequent administrative changes during (1772-1773)	4	IV,V
9.	Emergence of regional powers	3	V
10.	Mysore struggle with British	3	V.VI
11.	Panjab struggle with British	3	VI
12,	Awadh struggle with British	3	VI.V
13.	Their absorption in the British Empire	3	V
	UNIT-III		
14.	Uprising of 1857	2	V
15.	Uprising of 1857, causes	4	VI
16.	Uprising of 1857, nature	2	VI
17.	Uprising of 1857 consequences	2	VII
18.	Growth of British paramountcy in the Princely States 1858-1947	3	VII
19.	Main features of Permanent Roytwari	4	VII,VIII
20.	Mahalwari land	3	VIII
21.	Revenue settlements and their impact on peasantry	3	IX
	UNIT-IV		
22.	Drain of wealth and its consequences	4	IX,X
23.	Economic impact of British rule	2	X
24.	Causes of the Emergence of Indian Nationalism	5	X,XI
25.	Role of Moderates and Extremists	4	XI
26.	Revolutionary activities	3	XII
27.	Salient features of Government of India	3	XII
28.	Act of 1919	2	XIII
29,	Act of 1935.	2	XIII
	UNIT-V		73111
30.	Struggle for Freedom Movement from 1920 to 1947	12	XIII,XIV,XV
31.	Growth of Communal Politics	3	XV
32.	Factors leading to Independence	4	XV
33.	Factors partition of India	3	XV

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PRINCIPAL Veena Memorial PG Colleges Karaul in.

	Papers:- History-II (Contemporting)	Class:- B.A., B.A.B.H	Week
No.	TOPIC		
	UNIT-I	2	1
1.	Legacy of freedom struggle	2	I
2.	Socio-Cultural values of Non- Violence	3	1.11
3.	National integration	3	П
4.	Social Equality	2	Ш
5.	Women participation	3	Ш
6.	Problems and process of integration	2	.111
7.	Princely States into Indian Dominion (1947-1949)	3	III,IV
8.	Their re-organization in 1956	2	IV
9.	Problems of displaced persons	2	IV
10.	Rehabilitation Process	3	V
11.	Framing of Indian Constitution	3	V
12.	Main features and major amendments		· · ·
	UNIT-II		VI
13.	Agrarian reforms and Bhudan Movement	4	VLVII
14.	Planned economy	3	VII
15.	Industrialization-Policy	2	VII
16.	Programme and Progress	2	VII,IX
17.	Mixed economy	4	
18.	Green revolution	3	IX
19.	Nationalisation of Banks	3	X
20.	Abolition of Privy Purses	4	X,XI
21.	Liberalization	3	XI
41+	UNIT-III		571 X/11
22.	Major Political parties	4	XI,XII
23.	their role in democracy	2	XII
23.	From one party dominance to Coalition	2	XII
	Elements of foreign policy	3	XIII
25.	Relations with neighbors	4	XIII,XIV
26.	Non-Alignment	2	XIV
27.		3	XIV
28.	SAARC UNIT-IV		
		2	XV
29.	Changing social structure	2	XV
30.	Challenges and problems	2	XV
31.	Population growth	2	XVI
32.		2	XVI
33.	Poverty	3	XVI,XVII
34.		3	XVII
34.	I I D I Classor	3	XVII,XVII
35		2	XVIII
36	Role of middle class		
	UNIT-V	2	XVIII
37	. Progress and achievements	5	XVIII,XIX
38	Science and technology	3	XIX,XX
39		5	XX
40	Music painting /		, XXI
41		4	and and

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2022-2023

100	Prose an	d fiction	Week
S	aper- II Topics	Number of Lecture	Week
V			
	Unit-I		1
1	Bores	02	1
2	Freedom	04	11
3	What I Require from Life	04	
3	Unit-II		118111
4	Student Mobs	03	111
5	The Essentials of Education	04	111&IV
6	Non-Violence	04	Interior
0	Unit-III		IV
-	The Three Dancing Goats	02	IV&V
7 8	The Fortune Teller	02	V
1. C 7 4 11	Grief	02	
9	Unit- IV		V
10	The Doll's House	02	VI
10	How Much Land Does a Man Need?	02	VI
11	The Adventure of Blue Carbuncle	02	VI
12	Unit-V		V1&V11
1.0	The Bachelor of Arts (novel)	08	V ICC V II
13	The machener of survey		

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2022-2023

Paper –I

English Poetry and Drama

SN	Topics	Number of Lecture	Week
	Unit-I		
1	Ice and Fire	01	1
2	To Be or Not To Be	02	i
3	When To The Session	01	1
	Unit- II		
4	Death Be Not Proud	01	I
5	The Retreat	02	1&11
6	Thought in a Garden	04	II
	Unit-III		
7	When the Assault was Intended to The City	02	118111
8	Lucifer in Hell	03	III
9	Shadwell	04	III&IV
10	Alexander's Feast	04	TV&V
11	From 'An Essay on Criticism'	03	V
	Unit-IV		Y
12	As you like it (drama)	08	V, VI&VII
	Unit-V		v, vice vii
13	Elizabethan Period	03	VII
14	Metaphysical Poet	03	VII&VIII
15	Neo-classical Period	03	VIII
16	Literary Terms	05	VIII&IX

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	Paper –I English P	oetry and Drama	
S N	Topics	Number of Lecture	Week
	Unit-I		
1	Ice and Fire	01	1
2	To Be or Not To Be	02	I
3	When To The Session	01	I
	Unit- II		111
4	Death Be Not Proud	01	1
5	The Retreat	02	[&1]
6	Thought in a Garden	0.4	П
	Unit-III		
7	When the Assault was Intended to The City	02	11&111
8	Lucifer in Hell	03	III
9	Shadwell	04	III&IV
10	Alexander's Feast	04	IV&V
11	From 'An Essay on Criticism'	03	V
	Unit-IV		1.0
12	As you like it (drama)	08	V, VI&VII
	Unit-V		
13	Elizabethan Period	03	VII
14	Metaphysical Poet	03	VII&VIII
15	Neo-classical Period	03	VIII
16	Literary Terms	05	VIII&IX

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p	aper –II Pros	se and fiction	
S N	Topics	Number of Lecture	Week
-	Unit-l		1
1	Bores	02	1
2	Freedom	04	1
3	What I Require from Life	04	11
FC	Unit-II		11&111
4	Student Mobs	03	III
5	The Essentials of Education	04	111&IV
6	Non-Violence	04	mary
-	Unit-III		19.5
7	The Three Dancing Goats	02	IV
8	The Fortune Teller	02	IV&V
9	Grief	02	V
2	Unit- IV		
10	The Doll's House	02	V
	How Much Land Does a Man Need?	02	VI
11	The Adventure of Blue Carbuncle	02	VI
12	Unit-V		
12	The Bachelor of Arts (novel)	08	VI&VI
13	The bachelor of Arca (norter)		

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Paper -I

English Poetry and Drama

SN	Topics	Number of Lecture	Week
	Unit-I		
1	Elegy Written in a County Churchyard	06	I
2	Ode to evening	02	Ц
3	Light Shining out of Darkness	01	П
4	On The Receipt of My Mother's Picture	04	118111
	Unit-II		
5	The World is Too Much withUs	01	111
6	The Solitary Reaper	02	III
7	Christabel Pt I	08	III&IV
8	She walks in beauty	01	V
	Unit-II		
9	Ode to West Wind	03	v
10	Ode to a Skylark	04	V&VI
11	Ode to Autumn	02	VI
12	On First Looking into Chapman'sHomer	01	VI
13	Bright Star	01	VI
14	O Captain My Captain	01	VII
15	A Bird Came Down the Walk	01	VII
16	Success is Counted Sweetest	01	VII
	Unit-IV		1
17	The Silver Box	06	VII&VIII
	Unit-V		
18	Pre-Romantic Period	02	VIII
19	Romantic Period	02	VIII&IX
20	Literary Terms	08	1X&X

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SN	Topics	Number of Lecture	Week
3.1.4	Unit-I		T
1	Of Studies	02	1
2	Periodical Essays	02	1
3	The Spectator Club	03	1001
	Unit-II		
4	National Prejudices	03	11
5	A Bachelor's Complaint	04	11&111
6	On Going a Journey	06	III&IV
-	Unit-III		
7	The Umbrella	02	IV
8	The Luncheon	02	IV&V
9	A Rose for Emily	04	V
9	Unit-IV	1	
10	The Barber's Trade Union	03	VI
11	The Axe	03	VI
11	Unit-V		
12	The Mayor of Casterbridge	06	VII

Prose and fiction

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Paper -I

English Poetry and Drama

S N	Topics	Number of Lecture	Week
	Unit-I		
1	Elegy Written in a County Churchyard	06	1
2	Ode to evening	02	11
3	Light Shining out of Darkness	01	11
4	On The Receipt of My Mother's Picture	04	11.811
	Unit-II		
5	The World is Too Much withUs	01	III
6	The Solitary Reaper	02	III
7	Christabel Pt I	08	III&IV
8	She walks in beauty	01	V
	Unit-II		
9	Ode to West Wind	03	V
10	Ode to a Skylark	04	V&VI
11	Ode to Autumn	02	VI
12	On First Looking into Chapman'sHomer	01	VI
13	Bright Star	01	VI
14	O Captain My Captain	01	VII
15	A Bird Came Down the Walk	01	VII
16	Success is Counted Sweetest	01	VΠ
	Unit-IV		
17	The Silver Box	06	VII&VIII
	Unit-V		
18	Pre-Romantic Period	02	VIII
19	Romantic Period	02	VIII&IX
20	Literary Terms	08	IX&X

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Paper- II

Prose and fiction

S N	Topics	Number of Lecture	Week
	Unit-I		
1	Of Studies	02	I
2	Periodical Essays	02	1
3	The Spectator Club	03	1&11
	Unit-II		
4	National Prejudices	03	П
5	A Bachelor's Complaint	04	П&Ш
6	On Going a Journey	06	III&IV
	Unit-III		
7	The Umbrella	02	IV
8	The Luncheon	02	IV&V
9	A Rose for Emily	04	V
	Unit-IV		
10	The Barber's Trade Union	03	VI
11	The Axe	03	VI
-	Unit-V		
12	The Mayor of Casterbridge	06	VII

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English Poetry and Drama

Paper –I English 105		Number of Lecture	Week
5	Topics	Addition of Eccure	
Ň	Unit-I		
		03	1
	The Lotus Eaters	01	1
2	Break, Break, Break	02	1
3	My Last Duchess	02	
		02	11
4	Dover Beach		
	Unit-II	02	11
5	The Sea and the Skylark	02	11
6	The wild Swan at Coole	03	111
7	Birches	01	111
8	The Soldier	01	
-	Unit-III	03	111&1V
9	Preludes	03	11
10	In Memory of W B Yeats	03	1V&V
11	Fern Hill	03	
	Unit-IV	00	V&VI
12	The Doll's House	06	VI&VII
13	The Apple Cart	06	
	Unit-V	03	VII
14	The Victorian Period		VII&VII
15	Features of 20 th Century Literature	03	VIII&1X
16	Literary Terms	06	

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2022-2023

Paper- II

Prose and fiction

S N	Topics	Number of Lecture	Week
	Unit-1		
1	The Town Week	02	I
2	On The Pleasure of No Longer Being Very Young	03	Î
3	On Superstitions	03	1&11
	Unit-II		
4	In Praise of Ignorance	04	II
5	Selected Snobberies	04	iii
6	On Getting Off to Sleep	03	III&IV
	Unit-III		, incon t
7	Growing Up	03	IV
8	Dr Heidegger's Experiment	03	IV&V
9	The Gift of Magi	03	v
	Unit-IV		
10	A Client	03	V&V1
11	Upper Division Love	03	VI
12	The Gold Watch	03	VI&VII
	Unit-V		
13	Train to Pakistan	06	VII&VIII

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2021-2022

Paper -I

English Poetry and Drama

S N	Topic	Number of Lecture	Week
	Unit-I		
I	The Lotus Eaters	03	1
2 3	Break, Break, Break	01	1
3	My Last Duchess	02	1
4	Dover Beach	02	П
	Unit-II		
5	The Sea and the Skylark	02	П
6	The wild Swan at Coole	02	11
7	Birches	03	III
8	The Soldier	01	111
	Unit-III		
9	Preludes	03	III&IV
10	In Memory of W B Yeats	03	IV
11	Fern Hill	03	IV&V
	Unit-IV		
12	The Doll's House	06	V&VI
13	The Apple Cart	06	VI&VII
	Unit-V		1.122.2.44
14	The Victorian Period	03	VII
15	Features of 20th Century Literature	03	VII&VIII
16	Literary Terms	06	VIII&IX

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Paper- II

Prose and fiction

S	Topic	nd fiction		
N	Topic	Number of Lecture	Week	
	Unit-I			
1	The Town Week	02		
2	On The Pleasure of No Longer Being Very Young	03	1	
3	On Superstitions	03		
	Unit-II	05	1811	
4	In Praise of Ignorance	04		
5	Selected Snobberies	04	11	
6	On Getting Off to Sleep		111	
	Unit-III	03	111&IV	
7	Growing Up	02		
8	Dr Heidegger's Experiment	03	IV	
9	The Gift of Magi	03	IV&V	
	Unit-IV	03	V	
0	A Client			
11	Upper Division Love	03	V&VI	
2	The Gold Watch	03	Vl	
	Unit-V	03	VI&VII	
3	Train to Pakistan			
-	train to rakistall	06	VII&VIII	

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2020-2021

S N	er-I Fry Jush Poetry and Dea Topics	Number of Lecture	Week
	Unit-I		
1	Ice and Fire	01	1
2	To Be or Not To Be	02	1
3	When To The Session	01	1
	Unit- II		
4	Death Be Not Proud	01	I
5	The Retreat	02	1&11
6	Thought in a Garden	04	11
-	Unit-III		
7	When the Assault was Intended to The City	02	11&111
8	Lucifer in Hell	03	III
9	Shadwell	04	III&IV
10	Alexander's Feast	04	IV&V
11	From 'An Essay on Criticism'	03	V
	Unit-IV		
12	As you like it (drama)	08	V, VI&VII
	Unit-V		
13	Elizabethan Period	03	VII
14	Metaphysical Poet	03	VII&VIII
15	Neo-classical Period	03	VIII
16	Literary Terms	05	VIII&IX

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2020-2021

Paper -II	Trose	and	hchan
- · · · · · · · · · · · · · · · · · · ·		THE REAL PROPERTY OF	

S	Topics	Number of Lecture	Week
N			
-	Unit-I		1
1	Bores	02	
2	Freedom	04	
3	What I Require from Life	04	11
~	Unit-II		11&111
4	Student Mobs	03	110
5	The Essentials of Education	04	
6	Non-Violence	04	111&IV
	Unit-III		
7	The Three Dancing Goats	02	IV
8	The Fortune Teller	02	IV&V
9	Grief	02	V
9	Unit- IV		
10	The Doll's House	02	V
11	How Much Land Does a Man Need?	02	VI
12	The Adventure of Blue Carbuncle	02	VI
14	Unit-V		ALCOLOGICAL PROPERTY.
13	The Bachelor of Arts (novel)	08	VI&VI

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2020-2021

Paper-1 English Poetry and Drama

SN	Topics	Number of Lecture	Week
	Unit-1		
1	Elegy Written in a County Churchyard	06	I
2	Ode to evening	02	Н
3	Light Shining out of Darkness	01	II
4	On The Receipt of My Mother's Picture	04	111&11
	Unit-II		
5	The World is Too Much withUs	01	111
6	The Solitary Reaper	02	111
7	Christabel Pt I	08	111&IV
8	She walks in beauty	01	V
	Unit-II		
9	Ode to West Wind	03	V
10	Ode to a Skylark	04	V&V1
11	Ode to Autumn	02	VI
12	On First Looking into Chapman'sHomer	01	V1
13	Bright Star	01	V1
14	O Captain My Captain	01	VII
15	A Bird Came Down the Walk	01	VII
16	Success is Counted Sweetest	01	VII
	Unit-IV		
17	The Silver Box	06	VII&VIII
-HP2	Unit-V		
18	Pre-Romantic Period	02	VIII
19	Romantic Period	02	VIII&IX
20	Literary Terms	08	IX&X

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Paper- П	Trose and	2020-21
	fiction	

S N	Topics	Number of Lecture	Week
	Unit-I		
1	Of Studies	02	
2	Periodical Essays	02	1
3	The Spectator Club	03	1&11
	Unit-II	The second se	14411
4	National Prejudices	03	П
5	A Bachelor's Complaint	04	11&111
6	On Going a Journey	06	111&11
	Unit-III		
7	The Umbrella	02	IV
8	The Luncheon	02	IV&V
9	A Rose for Emily	04	V
	Unit-IV		
10	The Barber's Trade Union	03	VI
11	The Axe	03	VI
	Unit-V		
12	The Mayor of Casterbridge	06	VII

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s	Topics	Number of Lecture	Week
N			
	Unit-I		
1	The Lotus Eaters	03	1
2	Break, Break, Break	01	I
3	My Last Duchess	02	1
4	Dover Beach	02	11
-	Unit-II		
5	The Sea and the Skylark	02	11
6	The wild Swan at Coole	02	П
7	Birches	03	111
8	The Soldier	01	III
	Unit-III		111 (1 11 1
9	Preludes	03	III&IV
10	In Memory of W B Yeats	03	IV
11	Fern Hill	03	IV&V
	Unit-IV		
12	The Doll's House	06	V&VI
13	The Apple Cart	06	VI&VII
	Unit-V		
14	The Victorian Period	03	VII
15	Features of 20th Century Literature	03	VII&VII
16	Literary Terms	06	VIII&IX

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Paper -II Prose

Prose and fiction 2020-2021

s	Topics	Number of Lecture	Week
N			
-	Unit-I		
1	The Town Week	02	1
2	On The Pleasure of No Longer Being Very Young	03	1
3	On Superstitions	03	1&11
	Unit-II		
4	In Praise of Ignorance	04	11
5	Selected Snobberies	04	III
6	On Getting Off to Sleep	03	111&IV
	Unit-III		
7	Growing Up	03	IV
8	Dr Heidegger's Experiment	03	IV&V
9	The Gift of Magi	03	V
-	Unit-IV		Anna 2011 (11)
10	A Client	03	V&VI
11	Upper Division Love	03	VI
12	The Gold Watch	03	VI&VII
	Unit-V		
13	Train to Pakistan	06	VII&VIII

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S N	per-I English Poetry and Dr. Topics	Number of Lecture	Week
	Unit-I		
1	Ice and Fire	01	1
2	To Be or Not To Be	02	1
3	When To The Session	01	I
÷	Unit- II		
4	Death Be Not Proud	01	1
5	Go and Catch a Falling Star	01	1
5	The Retreat	02	1&11
6	Thought in a Garden	04	11
<u>v</u>	Unit-III		
7	When the Assault was Intended to The City	02	111&111
8	Lucifer in Hell	03	111
9	Shadwell	04	III&IV
10	Alexander's Feast	04	IV&V
11	From 'An Essay on Criticism'	03	V
	Unit-IV		
12	The Comedy of Errors	08	V, VI&VI
12	Unit-V		
13	Elizabethan Period	03	VΠ
14	Metaphysical Poet	03	VII&VIII
15	Neo-classical Period	03	VIII
16	Literary Terms	05	VIII&IX

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Paper-II Prose and fiction

S N	Topics	Number of Lecture	Week
N	Unit-I		T
1	Bores	02	T
2	Freedom	04	II
3	What I Require from Life	04	11
2	Unit-II		11&11
4	Student Mobs	03	
5	The Essentials of Education	04	111
6	Non-Violence	04	111&IV
0	Unit-III		
		02	IV
7	The Three Dancing Goats	02	IV&V
8	The Fortune Teller	02	V
9	Grief		
	Unit- IV	02	V
10	The Doll's House	02	V1
11	How Much Land Does a Man Need?		V1
12	The Adventure of Blue Carbuncle	02	
	Unit-V	0.0	VI&VII
13	The Bachelor of Arts (novel)	08	

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 2nd YEAR

Paper-I English Poetry and 2018-2019

SN	Topics	Number of Lecture	Week
	Paper -I		
	Unit-I		
1	Elegy Written in a County Churchyard	06	1
2	Ode to evening	02	11
3	Light Shining out of Darkness	01	II
4	On The Receipt of My Mother's Picture	04	11&111
	Unit-II		
5	The World is Too Much withUs	01	Ш
6	The Solitary Reaper	02	Ш
7	Christabel Pt I	08	III&IV
8	She walks in beauty	01	V
	Unit-II		
9	Ode to West Wind	03	V
10	Ode to a Skylark	04	V&VI
11	Ode to Autumn	02	VI
12	On First Looking into Chapman'sHomer	01	VI
13	Bright Star	01	VI
14	O Captain My Captain	01	VII
15	A Bird Came Down the Walk	01	VII
16	Success is Counted Sweetest	01	VII
	Unit-IV		
17	The Silver Box	06	VII&VIII
	Unit-V		
18	Pre-Romantic Period	02	VIII
19	Romantic Period	02	VIII&IX
20	Literary Terms	08	1X&X

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 2nd YEAR 2018-2019

Paper-II

Prose and fiction

S N	Topics	Number of Lecture	Week
	Topics		
	Unit-1		
1	Of Studies	02	1
2	Periodical Essays	02	1&11
3	The Spectator Club	03	10011
-	Unit-II		И
4	National Prejudices	03	11811
5	A Bachelor's Complaint	04	III&IV
6	On Going a Journey	06	Interv
¢	Unit-III		IV
7	The Umbrella	02	IV&V
8	The Luncheon	02	V
9	A Rose for Emily	04	V.
- AL	Unit-IV		VI
10	The Barber's Trade Union	03	VI
11	The Axe	03	
	Unit-V	_	VII
12	The Mayor of Casterbridge	06	VII.

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 3rd YEAR

S N	er-I English Poetry and Dien	Number of Lecture	Week
	Paper - I		
_	Unit-1		
1	The Lotus Eaters	03	L.
2	Break, Break, Break	01	I
2 3	My Last Duchess	02	I
4	Dover Beach	02	II
	Unit-II		
5	The Sea and the Skylark	02	11
6	The wild Swan at Coole	02	11
7	Birches	03	III
8	The Soldier	01	Ш
	Unit-III		
9	Preludes	03	III&IV
10	In Memory of W B Yeats	03	IV
11	Fern Hill	03	IV&V
	Unit-IV		
12	The Doll's House	06 -	V&VI
13	The Apple Cart	06	VI&VII
	Unit-V		
14	The Victorian Period	03	VII
15	Features of 20th Century Literature	03	VII&VII
16	Literary Terms	06	VIII&IX

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 3rd YEAR

2018-2019

Paper -II

Base and fiction

S N	Topics	Number of Lecture	Week
	Unit-I		
1	The Town Week	02	1
2	On The Pleasure of No Longer Being Very Young	03	1
3	On Superstitions	03	I&II
	Unit-II		
4	In Praise of Ignorance	04	11
5	Selected Snobberies	04	III
6	On Getting Off to Sleep	03	III&IV
	Unit-III		
7	Growing Up	03	IV
8	Dr Heidegger's Experiment	03	IV&V
9	The Gift of Magi	.03	V
	Unit-IV		
10	A Client	03	V&VI
11	Upper Division Love	03	VI
	Unit-V		
13	Train to Pakistan	06	VI&VII

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt.- 1st YEAR

2019-2020

SN	aper-I English Poetry and I Topics	Number of Lecture	Week
	Unit-I		
1	Ice and Fire	01	1
2	To Be or Not To Be	02	I
3	When To The Session	01	1
	Unit- II		
4	Death Be Not Proud	01	1
5	The Retreat	02	1&11
6	Thought in a Garden	04	П
	Unit-III		
7	When the Assault was Intended to The City	02	111&111
8	Lucifer in Hell	03	111
9	Shadwell	04	III&IV
10	Alexander's Feast	04	IV&V
11	From 'An Essay on Criticism'	03	V
	Unit-IV		
12	The Comedy of Errors	08	V, VI&VII
	Unit-V		
13	Elizabethan Period	03	VII
14	Metaphysical Poet	03	VII&VIII
15	Neo-classical Period	03	VIII
16	Literary Terms	05	VIII&IX

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt.- 1st YEAR

2019-2020

S N	Paper-II Prose and fiction Topics	Number of Lecture	Week
	Unit-I		
1	Bores	02	T
2	Freedom	04	1
3	What I Require from Life	04	II II
	Unit-II		
4	Student Mobs	03	11&111
5	The Essentials of Education	04	III
6	Non-Violence	04	III&IV
	Unit-III		meerv
7	The Three Dancing Goats	02	IV
8	The Fortune Teller	02	
9	Grief	02	IV&V V
	Unit- IV		v
10	The Doll's House	02	V
11	How Much Land Does a Man Need?	02	VI
12	The Adventure of Blue Carbuncle	02	and the second se
	Unit-V		VI
13	The Bachelor of Arts (novel)	08	VI&VII

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 2nd YEAR 2019-2020

SN	-I English Poetry and D Topics	Number of Lecture	Week
	Unit-I		
1	Elegy Written in a County Churchyard	06	I
2	Ode to evening	02	11
3	Light Shining out of Darkness	01	П
4	On The Receipt of My Mother's Picture	04	11&111
	Unit-II		
5	The World is Too Much withUs	01	Ш
6	The Solitary Reaper	02	III
7	Christabel Pt 1	08	III&IV
8	She walks in beauty	01	v
	Unit-II		
9	Ode to West Wind	03	V
10	Ode to a Skylark	04	V&VI
11	Ode to Autumn	02	VI
12	On First Looking into Chapman'sHomer	01	VI
13	Bright Star	01	VI
14	O Captain My Captain	01	VII
15	A Bird Came Down the Walk	01	VII
16	Success is Counted Sweetest	01	VII
	Unit-IV		
17	The Silver Box	06	VII&VIII
	Unit-V		
18	Pre-Romantic Period	02	VIII
19	Romantic Period	02	VIII&IX
20	Literary Terms	08	IX&X

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2019-2020

Prose and fiction Paper- II

SN	Topics	Number of Lecture	Week
_	Unit-I		
1	Of Studies	02	I
2	Periodical Essays	02	I
3	The Spectator Club	03	1&11
	Unit-II		
4	National Prejudices	03	11
5	A Bachelor's Complaint	04	111&111
6	On Going a Journey	06	III&IV
	Unit-III		
7	The Umbrella	02	IV
8	The Luncheon	02	IV&V
9	A Rose for Emily	04	V
	Unit-IV		
10	The Barber's Trade Union	03	VI
11	The Axe	03	VI
-	Unit-V		
12	The Mayor of Casterbridge	06	VII

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 3rd YEAR 2019-2020

Paper - I

English Poetry and Diama

S N	Topics	Number of Lecture	Week
	Unit-I		
1	The Lotus Eaters	03	1
2	Break, Break, Break	01	1
3	My Last Duchess	02	I
4	Dover Beach	02	11
	Unit-II		
5	The Sea and the Skylark	02	П
6	The wild Swan at Coole	02	11
7	Birches	03	III
8	The Soldier	01	Ш
	Unit-III		
9	Preludes	03	III&IV
10	In Memory of W B Yeats	03	IV
11	Fern Hill	03	IV&V
	Unit-IV		
12	The Doll's House	06	V&VI
13	The Apple Cart	06	VI&VII
	Unit-V		
14	The Victorian Period	03	VII
15	Features of 20th Century Literature	03	VII&VIII
16	Literary Terms	06	VIII&IX

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Veena Memorial PG College Karauli, Rajasthan LECTURE PLAN – ENGLISH LITERATURE B A/ B A B.Ed. Pt. - 3rd YEAR 2019-2020

Paper -II

Prose and fiction

SN	Topics	Number of Lecture	Week
	Unit-I		
1	The Town Week	02	1
2	On The Pleasure of No Longer Being Very Young	03	I
3	On Superstitions	03	1&11
	Unit-II		
4	In Praise of Ignorance	04	П
5	Selected Snobberies	04	111
6	On Getting Off to Sleep	03	111&IV
	Unit-III		
7	Growing Up	03	IV
8	Dr Heidegger's Experiment	03	1V&V
9	The Gift of Magi	03	V
	Unit-IV		
10	A Client	03	V&VI
11	Upper Division Love	03	VI
	Unit-V		
12	Train to Pakistan	06	VI&VII

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Veena Memorial P.G college, Karauli (Rajasthan) Lecture Plan B.Sc./B.Sc.B.Ed PART II (PHYSICS) 2022-23 Paper I- Thermal and Statistical Physics

5.N	Name of Topics	No. of Lecture	Week
	Unit – I		
1.	General Thermodynamical interaction, Dependence of the number of states of external parameters	1	1
2.	General relations in equilibrium, equilibrium conditions(P=p1,b=b 1), infinitesimal quasistatic process, Entropy of an ideal gas, Equilibrium of an isolated system, Equilibrium of a system in contact with reservoir (Gibb's free energy),	2	1
3.	equilibrium between phases, Clausius-Clapeyron equation, Triple point,Vapour in equilibrium with liquid or solid, equilibrium conditions for a system of fixed volume in contact with heat reservoir (Helmholtz free energy	1	1
4.	Equilibrium between phases and condition of chemical equilibrium	2	1
5.	equilibrium condition for a system at constant pressure in contact with a heat reservoir (Enthalpy), Maxwell's relations Unit-II	1	Ш
6.	Thermal interactions of macroscopic Systems, system in contact with a heat reservoir, first law of thermodynamics	2	11
7.	Infinitesimal general interaction, Concept of temperature and quantitative idea of temperature scale (thermodynamical parameter	2	11
8.	Distribution of energy, second law of thermodynamics, Claussius and Kelvin's statements, partition function (Z)	2	11,111
9.	mean energy of an ideal gas and mean pressure, Heat engine and efficiency of the engine,	2	111
10.	Carnots cycle, thermodynamical scale as an absolute scale. Unit-III	2	111
11.	Production of Low Temperatures and Application, Joule Thomson expansion	4	111,1∨
12.	J.T.coefficients for ideal as well as Van-der Waal's gas, Temperature inversions,	3	IV
13.	Regenerative cooling and cooling by adiabatic expansion and demagnetization,	4	V,VI
14.	Liquid He, He –I and He-II, superfluidity, quest for absolute zero, Nernst heat theorem	3	VI
	Unit-IV	2	VI,VII
15.	Classical Statistics, Phase space, micro and macro states, Thermodynamic probability, Entropy and probability, Partition function (Z),	2	
16.	The monatomic ideal gas, The principle of equipartition of energy, most probable, average	3	VII
17.	F In the second s	3	VII,VIII
18.	The Distribution of Molecular Velocities, the energy distribution, Transport phenomenon, mean free path, distribution of free path Coordin Of (OAC)		ااا∨ عر
19.		3 Jak	VIII,IX

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	Unit-V		
20.	Quantum Statistics, Black body radiation and failures of classical statistics	3	IX
21.	Postulates of quantum statistics, Indistinguishability, Wave function and exchange degeneracy, Priori probability, Bose- Einstein's Statistics, Planck's distribution law	3	IX,X
22.	Fermi-Dirac statistics, completely degenerate system, Bose- Einstein condensation, Themionic Emission, specific heat amamly of metals contact potential and Ortho and Para hydrogen.	4	×

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Veena Memorial P.G college, Karauli (Rajasthan)

Lecture Plan B.Sc./B.Sc.B.Ed PART II(PHYSICS) 2022-23 Paper –II ELECTRONICS

S.N	Name of Topics	No. of Lecture	Week
	Unit – I		
1.	Circuit Analysis, Network-some important definitions	1	1
2.	loop and nodal equation, Kirchhofs Laws, driving point and transfer impedances	2	1
3.	four terminal network parameters, Open circuit, short circuit and hybrid network theorems,	1	I
4.	Superposition, Thevenin, Norton, Reciprocity	2	1
5.	Compensation and maximum power transfer	1	11
6.1.	Unit-II		
б.	Semiconductors, Intrinsic and extrinsic semiconductors, charge densities in N and P materials, conduction by drift and diffusion of charge,	2	н
7.	Formation of PN junction, PN diode equation, capacitance effect of diode.	2	ш
8.	Rectification and power Supply, Half-wave and full wave rectifiers, calculation of Ripple factor, efficiency and regulation,	2	11,111
9,	bridge rectifier, Filters: shunt capacitor, L and 🗌 filters,	2	111
10.	Voltage regulation and voltage stabilization, Zener diode, Voltage multiplier circuits.	2	30
	Unit-III		1000
11.	Transistor and Transistor Amplifiers, Notations and volt ampere relations for bipolar junction transistor, CB, CE, CC configurations	4	111,IV
12.	characteristic curves and their equivalent circuits, Biasing of transistors, Fixed and emitter bias, bias stability in transistor circuits	3	IV
13.	concept of load line and operating point, hybrid parameters, Field effect transistor (JFET and MOSFET)	4	V,VI
14.	its circuit characteristics, Analysis of transistor amplifiers using hybrid parameters and its frequency response	3	VI
	Unit-IV		
15.	Amplifiers with feed back, Concept of feed back Positive and negative feed back advantage of negative fead beck, stabilization of gain by negative feed back	2	VI,VII
16.	Effect of feed back on output and input resistance, Reduction of nonlinear distortion by negative feed back,	3	VII
17.	frequency response, Voltage and current feed back circuit.	3	VILVIII
18.	Oscillators, Feed back requirements for oscillations, circuit requirement for oscillation, basic oscillator analysis,	4	VIII
19.	Colpitt and Hartley oscillators, R-C Phase shift oscillator, Piezoelectric frequency control oscillations.	3	VIII,IX
	Unit-V		
20.	Operational amplifier (OP-AMP), Differential amplifier, DC levels shifter, operational amplifier, input and Output impedances, input offset curren,	3	IX
21.	Application of OP-AMP, Unity gain buffer, Adder, Subtractor, Integrator and Differentiator, Comparator, Waveform generator, Voltage regulator, using integrated amplifiers.	3	IX,X
22.	Digital Circuits: Binary, Hexadecimal and Octal number systems, Binary arithmetic Logic fundamentals, AND, OR, NOT, NOR., NAND, XOR gates, Boolean theorems, transistor as a switch, circuit realization of logic functions	4	x

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Veena Memorial P.G college, Karauli (Rajasthan)

Lecture Plan

B.Sc./B.Sc.B.Ed PART II(PHYSICS) 2022

Paper-III Relativity and Mathematical Physics

S.N	Name of Topics	No. of Lecture	Week
	Unit – I		
1.	Orthogonal Curvilinear coordinate system, scale factors, expression for gradient, divergence and curl	1	1
2.	and their applications to Cartesian, cylindrical and spherical polar coordinate systems,	2	1
3.	Coordinate transformation and Jacobian,	1	1
4.	Transformation of covariant, contravariant and mixed tensor, Addition,	2	1
5.	Multiplication and contraction of tensors, Quotient law, pseudo tensor, Metric tensor, transformation of Tensors	1	Ш
	Unit-II		
6.	Dirac-Delta Function and its properties, Fourier series, computation of Fourier coefficients, applications to simple periodic functions like square wave, sawtooth wave and rectifier out put	2	H
7.	Postulates of special theory of relativity and observational evidence, Lorentz transformation and Page 14 of 29 rotation in space time	2	ļļ
8.	time like and space like vectors, length contraction, time dilation	2	11,111
9.	worldline, mass-energy relation, energy-momentum relation.	2	III
	Unit-III	-	
10.	Four vector formulation, energy-momentum four vectors, relativistic equation of motion, Orthogonality of four forces and four velocities	2	111
11.	transformation of four wave vector, longitudinal and transverse Doppler's effect, Transformation between laboratory and center of mass systems,	4	III,IV
12.	four momentum conservation, Kinematics of decay products of an unstable particle and reaction thresholds, pair production, inelastic collision of two particles, Compton effect. Electromagnetic field tensor, transformation of four potentials, four currents	3	IV
13.	electric and magnetic field between two inertial frames of reference, Lorentz force, equation of continuity, conservation of charge	4	V,VI
14.	tensor description of Maxwell's equations.	3	VI
	Unit-IV		
15.	The second order linear differential equation with variable coefficient and singular points, series solution method and its application in the Bessel's, Hermite's	2	VI,VII
16.	Legendre's and Laguerre's differential equations, Basic properties like orthogonality, recurrence relations,	3	VII
17.	graphical representation and generating function of Bessel,	3	VII,VIII
18.	Hermite, Legendre Laguerre and Associated Legendre functions.	4	VIII
	Unit-V		
19.	Technique of separation of variables and its application to following boundary value problems: (i) Laplace equation in three dimension Cartesian	3	VIII,IX
20.	Coordinate system-line charge between two earthed parallel plates, (ii) wave equation in spherical polar coordinates	3	IX
21.	vibration of circular membrane, (iii) Diffusion equation in two dimensional Cartesian coordinate system-heat conduction in thin rectangular plate,	3	IX,X
22.	Laplace equation in spherical coordinate system-Electric Potential about a spherical surface.	4	X

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Veena Memorial P.G college, Karauli (Rajasthan)

Lecture Plan B.Sc./B.Sc.B.Ed PART I (PHYSICS) 2022-23 Paper I- MECHANICS

Unit - I Intertial & non-inertial frames 1 1 1. Inertial & non-inertial frames 1 1 1. Gailian transformations 2 1 3. fictious force, 1 1 4. uniformity rotating frames 2 1 5. transformation of displacement, 1 11 6. velocity and acceleration, 2 11 7. coriolis force, motion relative to earth 2 11 8. effect of rotation of earth on 'g', 2 111 9. Focault's pendulum and its time period. 2 111 10. Concept of centre of mass, Centre of mass of a system of particles 2 111 11. Indicate frames of in 1-D and 2-D reference) elastic and inelastic collision and center of Mass frames of in 1-D and 2-D reference) elastic and inelastic collision 3 IV 13. trajectory of a particle under gravitational force, Kepler's Law, Rutherford's formula 4 V.J. 14. Rigid body dynamics, equation of motion of a rotating body, Inertial coefficient, Moments of Inertia theorems, idea of principal axes and kinetic energy of rotation. 3 IV 15. Precessional motion of spinning top, spin precession in constant magnetic field, spin theorem dispin theastrain, Hooke's Law, 2 VI.V. <th>S.N</th> <th>Name of Topics</th> <th>No. of</th> <th>Week</th>	S.N	Name of Topics	No. of	Week
1. Inertial & non-inertial frames 1 1 2. Galilean transformations 2 1 3. fictious force, 1 1 4. uniformly rotating frames 2 1 5. transformation of displacement, 1 1 1 6. velocity and acceleration, 2 1 1 7. coriolis force, motion relative to earth 2 11 1 8. effect of rotation of earth on 'g', 2 11 11 1 9. focault's pendulum and its time period. 2 111 1		Unit 1	Lecture	
2. Galilean transformations 2 1 3. fictious force, 1 1 4. uniformly rotating frames. 2 1 5. transformation of displacement, 1 11 6. velocity and acceleration, 2 11 7. corolis force, motion relative to earth 2 11 8. effect of rotation of earth on 'g', 2 11.11 9. Focault's pendulum and its time period. 2 111 10. Concept of centre of mass, Centre of mass of a system of particles 2 111.1 11. equation of motion, conservation of linear momentum, Relationship between (Lab and center of Mass frames of in 1-2 band 2-D reference) elastic and inelastic collision 3 1V 12. Motion of a system with varying mass, Motion in a central force field, conservation 3 1V 13. trajectory of a particle under gravitational force, Kepler's laws, Rutherford's formula 4 V.V. 14. Rigid body dynamics, equation of motion of a rotating body, Inertial coefficient, Moments of inertia theorems, Idea of principal axes and kinetic energy of rotation. 15. 15. Precessional motion of spipinin precession in constant	1	HARDEN W	1	
3. fictious force, 1 1 4. uniformly rotating frames 2 1 5. transformation of displacement, 1 11 6. velocity and acceleration, 2 11 7. coriolis force, motion relative to earth 2 11 8. effect of rotation of earth on 'g', 2 111 9. Focault's pendulum and its time period. 2 111 11. equation of motion, conservation of linear momentum, Relationship between (Lab and center of Mass frames of in 1-D and 2-D reference) elastic and inelastic collision 4 111, 11 11. equation of motion, conservation of a rotating body, Inertial coefficient, data momentum, 4 V. 12. Motion of a system with varying mass, Motion in a central force field, conservation data momentum, 4 V. 13. trajectory of a particle under gravitational force, Kepler's laws, Rutherford's formula 4 V. 14. Rigid body dynamics, equation of motion of a rotating body, Inertial coefficient, data weight for theorems, idea of principal axes and kinetic energy of rotation. 7 15. Precessional motion of spinning top, spin precession in constant magnetic field, larmor's frequency. 3 VII				- 1
1. uniformity rotating frames 2 1 2. 1 1 1 3. transformation of displacement, 1 1 4. velocity and acceleration, 2 11 7. coriolis force, motion relative to earth 2 11 9. Focault's pendulum and its time period. 2 111 9. Focault's pendulum and its time period. 2 111 11. equation of motion, conservation of linear momentum, Relationship between (Lab and center of Mass frames of in 1-D and 2-D reference) elastic and inelastic collision 3 1V 12. Motion of a system with varying mass, Motion in a central force field, conservation of angular momentum, 3 1V 13. trajectory of a particle under gravitational force, Kepler's laws, Rutherford's formula 4 V.V. 14. Rigid body dynamics, equation of motion of a rotating body, Inertial coefficient, Moments of Inertia theorems, idea of principal axes and kinetic energy of rotation. 3 VI 15. Precessional motion of spinning top, spin precession in constant magnetic field, tarmor's frequency. 3 VII 18. theory of bending of beams and torsion of a cylinder,Cantilever, cantilever suported at both ends <				
5. transformation of displacement, 1 II 6 velocity and acceleration, 2 III 7 coriolis force, motion relative to earth 2 III 8 effect of rotation of earth on 'g', 2 III,III 9 Focault's pendulum and its time period. 2 III 10 Concept of centre of mass, Centre of mass of a system of particles 2 III 11 equation of motion, conservation of linear momentum, Relationship between (Lab and center of Mass frames of in 1-D and 2-D reference) elastic and inelastic collision 4 III,III 13 trajectory of a particle under gravitational force, Kepler's laws, Rutherford's formula 4 V.V 14. Rigid body dynamics, equation of motion of a rotating body, Inertial coefficient, Moments of Inertia theorems, idea of principal axes and kinetic energy of rotation. 5 VI.V 15. Precessional motion of spinning top, spin precession in constant magnetic field, Larmor's frequency. 3 VII 14 Elasticity, stress and strain, Hooke's Law, 2 VI.V/ 17. Elastic constants and their relations, 3 VIII, V 18. theory of bending of beams and torsion of a cylinder,Cantilever, cantilever supp				i
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7 coriolis force, motion relative to earth 2 II 8 effect of rotation of earth on 'g', 2 II,III 9 Focault's pendulum and its time period. 2 III 10 Concept of centre of mass, Centre of mass of a system of particles 2 III 11 equation of motion, conservation of linear momentum, Relationship between (Lab and center of Mass frames of in 1-D and 2-D reference) elastic and inelastic collision 3 IV 12 Motion of a system with varying mass, Motion in a central force field, conservation of angular momentum, 3 IV 13. trajectory of a particle under gravitational force, Kepler's laws, Rutherford's formula 4 V.V 14. Rigid body dynamics, equation of motion of a rotating body, Inertial coefficient, Moments of Inertia theorems, idea of principal axes and kinetic energy of rotation. 3 VI 15. Precessional motion of spinning top, spin precession in constant magnetic field, Larmor's frequency. 3 VII 16. Elasticity, stress and strain, Hooke's Law, theory of bending of beams and torsion of a cylinder,Cantilever, cantilever supported at both ends 3 VIII 19. Experimental determination of elastic constants by bending of beam 4 <td></td> <td></td> <td></td> <td></td>				
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VEENA MEMORIAL DEGREE COLLEGE KARALI RAJASTHAN LECTURE PLAN

B.Sc./B.Sc.B.Ed PART I (PHYSICS) 2022-23

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No	Topic	Number of lecture	WEEK
	Unit-I - Scalar and Vector Fields		
1	Scalar and Vector Fields, Gradient of a scalar field, relation between conservative field	2	1
2	Potential, line, surface and volume integral of vector fields, concept of flux, Divergence and Curl of a vector field and their physical significance	2	1
3	Gauss' divergence and Stokes curl theorem with proof	2	1
4	Del and Laplacian operator in Cartesian, Cylindrical and Spherical coordinates.	3	2
	Unit II - Electrostatics		
5	Electric potential and field due to arbitrary charge distribution, Multipole Expansion, potential	2	2
6	field due to dipole & its interaction with electric field electrostatic energy of a uniformly charged sphere, classical radius of an electron.	2	2,3
7	Atomic and molecular dipoles, induced dipole and polarizability, dielectrics and their electrical polarization, susceptibility	2	3
8	displacement vector, Capacity of a capacitor with partially and completely filled dielectrics,	2	3
9	Gauss' law in integral and differential form, Lorentz local field and Clausius-Mossoti equation.	2	3,4
	Unit-III - Electrostaic Field		
10	Conductors is an electric field, boundary conditions for electrostatic field and potential at dielectric surface, uniqueness theorem	2	4
11	method of electrical images and its application for system of point charge near a grounded conducting plane,	2	4
12	Poisson's and Laplace equation in Cartesian, cylindrical and	2	4
13	spherical coordinates (without proof) solution of Laplaces equation in cartesian coordinates, boundary conditions.	3	5
14	Unit IV Rise and decay of current in LR and CR circuits, decay constants, transients in LCR circuits, self and mutual induction	2	5
15	Measurement of self induction by Rayleigh's method, AC circuits and complex numbers	2	5
16	their application in solving AC circuit problems, complex impedance and reactance, series and parallel resonance.	2	6
17	Quality factor, power consumed by an AC circuit, Power factor.	2	6
18	Biot Savart law, Amperes circuital law in differential and integral form	2	6
19	Magnetization vector, Magnetizing field H, relation between B, H and M. uniform magnetization and surface current	2	7
20	Non – uniform magnetization, orbital and spin angular momentum & magnetic moment, orbital gyro magnetic ratio and Bohr Magnetion, Magnetic suspectibility	2 Anter	× 8

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	Unit-V		
21	Time Varying Fields, Faraday's law of electromagnetic induction, its integral and differential form,	2	8
22	Maxwell's equation in differential and integral form, Maxwell's displacement current, Wave equation for electric and magnetic field,	3	8
24	Plane electromagnetic waves and their properties, transverse nature of EMW, energy density,	3	9
25	Poynting Theorem, Poynting vector, propagation of EM Wave in conducting and isotropic dielectric medium	2	9

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Veena Memorial PG College Karauli (Raj.)

VEENA MEMORIAL DEGREE COLLEGE KARALI RAJASTHAN

LECTURE PLAN

B.Sc./B.Sc.B.Ed PART I (PHYSICS) 2022-23

PAPER III Optics

S.n.	Topic	Number of lecture	WEEK
	Unit-I Geometrical Optics		
1	Fermat's principle of extremum path, Aplantic points of a spherical refracting surface, Cardinal points of an optical system,	1	1
2	Newton's formula and other relations for coaxial lens system, thick lens & lens combination, Lagrange's law	2	1
3	Aberration in images, spherical aberration and methods of its reduction,	1	1
4	chromatic aberration, achromatic combination of lenses placed in cotact and placed at some distance,	1	1
5	coma and astigmatism, Eye pieces: Huygen's, Ramsden's and Gauss's eyepieces and their comparison.	2	2
	Unit- II - Interference		5.0
6	Youngs double slit experiment, temporal and spatial coherence, coherence length and time effect of size of slit and purity of spectral line,	2	2
7	Interference in thin films, colour in thin films. Wedge shaped film, Newton's rings	1	2
8	determination of wavelength and refractive index of liquid by Newton ring, Hadinger and Fizeau fringes	1	2,3
9	Michelson Interferometer, Measurement of wavelength, wavelength difference between two close wavelengths	2	3
10	thickness of thin plate. Fabry-Perot interferometer, intensity distribution, coefficient of sharpness and half width	2	3
11	Measurement of wavelength and resolution of two close spectral lines.	1	3
	Unit-III - Diffraction		
12	Fraunhofer diffraction at single slit, intensity distribution and width of central maxima, and determination of slit size,	1	3,4
13	two slit diffraction and its intensity distribution with missing orders. Diffraction due to N slits with intensity distributions	2	4
14	Plane transmission grating its formation Page 5 of 29 and intensity distribution, Dispersive power of grating,	1	4
15	Angular width of principal maximum, Absent Spectra, Rayleigh's criterion, resolving power of plane transmission grating	1	4
16	Fresnel class of diffraction, half period zones, zone plate, diffraction due to circular obstacle and aperture,	2	4,5
17	cylindrical wavefront and its effect at an external point, Diffraction at straight edge, thin and thick wire, rectangular slit.	2	5
	Unit-IV - Polarization		
18	Polarization states of electromagnetic waves, Plane, Circularly and Elliptically Polarised Light, quarter and half wave plates,	1	5
19	methods of production & detection of polarized light, Huygen's theory of double refraction using Fresnal's ellipsoidal surface,	2	5,6
20	Crystal Optics, Optical activity, Specific rotation, Fresnel's law of optical rotation, Biguartz and Laurent's half shade polarimeters, Reflection	2	6
21	refraction of plane EMW at plane dielectric surface, boundary conditions, Fresnel's relations. Unit-V - Lasers and Holography	2	6
22		you2	6

23	population inversion, conditions for laser action, metastable states, Types of lasers,	2	7
24	construction, working and energy level schemes of He-Ne and Ruby laser, Applications of Lasers,	2	7
25	Basic concepts of holography, construction of a hologram and reconstruction of the image,	1	7
26	important features of hologram and uses of holography	1	7,8

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VEENA MEMORIAL P.G. COLLEGE B Sc III year KARALI RAJASTHAN

paper-III

LECTURE PLAN

Physical chemistry

S. no	Topic	Number of lecture	WEEK
	Unit 1 Elementary quantum mechanism		
1	Black body radiation ,planks radiation law	1	1
2	Photoelectric effect ,heat capacity	2	1
3	Bohr model of hydrogen atom and its defect	1	1
4	Compton effect, de Broglie Heisenberg uncertainty principal	1	1
5	Sinusoidal wave ,physical interpretation of the wave fuction	1	2
6	Postulate of quatam mechanics, partical one dimensional box	2	2
7	Schrodinger wave equation for hydrogen atom	1	2
8	Separation into three equation ,quatum number and their important	1	2,3
9	Hydrogen like wavefuction ,radial wave fuction and angular wave fuction	2	3
	Unit 2 Molecular orbital theory		
10	Basic idia ,criteria for MO from AO ,construction of MO of H ₂ ion by LACO method	2	3
11	Calculation of energy level from wave fuction	1	3
12	Physical picture of bonding and anti bonding wave fuction	1	3,4
13	Concept of sigma ,sigma anti -bonding ,pi and pi anti bonding orbital and their characteristic	2	4
14	Hybrid orbital sp ,sp ² ,sp ³ .	1	4
15	Calculation of coefficient of AO	1	4
16	H ₂ valence bond model ,comparision of MO and VB model	2	4,5
	Unit -3 spectroscopy		5
17	Introduction electromagnetic radiation, spectrum basic feature of different spectrometer	2	5
18	Statement of the Born- Openheimer approximation, degree of freedom	1	5
19	Rotational spectroscopy ,Diatomic molecule ,energy level of a rigid rotator	2	5,6
20	Selection rules ,spectral intensity ,using population distribution ,determination of bond length	2	6
21	Qualitative descripation of non rigid rotator and isotop effect	2	6
22	Vibrational spectroscopy energy level of simple harmonic oscillator ,selection rule	2	6
23	Pure vibrational spectrum ,intensity	2	7
24	Determination of force constant and qualitative relation force constant and bond energy	2	7
25	Effect of anharmonic motion and isotop on the spectrum	1	7
26	Idea of vibrational frequencies of different function groups	1	7,8
27	Concept of polarizability , pure vibrational raman spectra of die atomic	2	8

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र्मुक्रूम् प्राचार्य रयन वीणा मैमोरियल पी.जी. कॉलेज करौली (राज०)

	molecule ,selection rule	1	8
28		2	8,9
29	Electronic spectroscopy Concept of potential energy curve for bonding and anti bonding		
		2	9
30	Qualitative description of selection rule and frank condon principal	2	9
	Qualitative description of sigma ,pi and hivio , then energy to be		
	respective transition.		
31		2	10
32	Unit 4 photochemistry Interaction of radiation with matter , difference between thermal and		
12.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	10
33	the start grothus drapper law stdik - Linstein inter	2	10
34	Law of photochemistry grothes unappendix Jablonski diagram depicting various processes occurring in the exited		
73N	10.101	1	11
35	Qualitative description of fluorescence , phosphorescence,	2	12
24	Non-radiative process , quantum yield , actinometry , processes and		
	and the approvide transfer process		
36	the word manufacture	2	12
37		2	12
38	Optical activity ,polarization ,orientation of oppose Dipole moment ,measurent of dipole moment temperature method and	£1.	1994.04
50	refractivity method	2	13
39	Dipole moment and structure of molecule	1	13
40	Magnetic properties	1	13
40	Paramagnetism , diemagnetis and ferromagnetic	1	14
41	Solution general introduction	2	14
-	I deal and non-ideal solution and their properties	2	14
43		2	15
44	Method of expressing concentration of solution Activity and activity coefficient ,roult and Henry law ,Azeotropes-ethanol	2	
45	1 (A. 1	2	15
10	the time law Thermodyamic derivation application		15,16
46	Dilute solution, colligative properties, relative lowering of vapour	2	10,10
47			16
	pressure Molecular weight determination	2	16
48	Osmotic pressure and its measurement ,determination	2	16
49	i i i i i i i i i i i i i i i i i i i	2	17
50	in the of molecular weight from osmotic pressure	1	17
51	and an and depression in thee with	2	17
52	the strength and for dotormination various comparise property	2	
53	i i i and apporting maiar mass uegree of dissociation	2	18
54	Abnormal value and abnormal motor mean of a sociation of solutes	1.111223	1

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VEENA MEMORIAL P. G. COLLEGE B.sc 2nd year KARALI RAJASTHAN

LECTURE PLAN

paper -II

Organic chemistry

vear

	Organic chemistry	year	
s.no	Topic	No of lecture	week
- Harrison -	Unit -1 uv and ir spectroscopy		
1	Absorption law ,molar absorptivity ,presentation and analysis of uv spectra	1	1
2	Type of electronic transition, effect of conjugation	1	1
3	Concept of chromophore and auxochrome	1	1
4	Bathocromic shift ,hypo,hyper,hypsoshift	1	1
5	Uv spectra of diene	1	1,2
6	Ir spectra ,molecular vibration ,hookes law selection rule ,intensity and position of IR band	2	2
7	Finger print region, characteristic absorption of various functional group	3	2
8	Interpretation of ir spectra of simple organic compound	2	3
	Unit 2 alcohal and phenol		_
10	Classification and nomenliture of alcohol ,method of preparation	2	3
11	Reduction by aldehyde and ketone ,carbolic acid ,ester,hydrogen bonding	2	3
12	Acidic nature and reaction of alcohal	2	4
13	Dihydric alcohol ,nomenclaiture,method of preparation vicinal glycol,oxidative cleavage	2	4
14	Pincol-pinaacolone reaarangement,tr ihydric alcohal	2	4
15	Chemical reaction of glycerol	1	5
16	Phenol, nomenliture structure of phenol, and preparation , comparative acidic strength of alcohol, and phenol	1	5
17	Electrophillic substation ,acylation and carboxylation	2	5
18	Mechanismof fries reaarangment, claisen reaarangement	2	5
19	Gatterman reaction ,HaubenHoesch reaction ,	2	6
20	Lederer- manasse reaction and reamer tiemann reaction	2	6
	Unit 3 carbonyl compound		
21	Nomencliture, structure of carbonyl group and synthesis of aldehyde and ketone using 1,3 dithianes,	2	6,7
22	Synthesis of ketone from nitrile and carboxylic acid	2	7
23	physical properties, mechanism of nucleophile addition to carboxylic group with particular emphasis on benzion , aldol, perkinand knoevenagel condensation	2	7
24	Condensation with ammonia and its derivative	2	8
25	Witting reactionand mannich reaction	2	8
26	Use of acetal as aprotecting group ,oxidationof aldehyde	2	8
27	Baeyervilliger oxidation of ketone ,cannizzaro reaction	2	9
28	Meerwein	2	9
29	LiAlH ₄ and NaBH ₄ reduction	2	10
30	Haldgenations of enolizable ketone	2	10

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वीणा मैंमोरियल पी.जी. कॉलेज करीली (राज०)

31	An introduction to aloha and beta unsaturated aldehyde and ketone	2	10
	Unit 4 ethar and epoxide		
32	Nomenclature of ether	2	11
33	Method of preparation ,physical properties	2	11
34	Chemical reaction ,cleavage and autooxidation	2	11,12
35	Ziesel method ,synthesis of epoxide ,acid and base catalyzedring opening of epoxide ,	2	12
36	Reaction of Grinard and oraganolithium reagent reagent with example	2	12
37	Carboxillic acid nomenclature ,structure and bonding ,physical properties ,acidity of carboxylic acid ,effect of substituent on acid strength	2	12
38	Preparation of carboxillicx acid , reaction of acid, Hell-volhard – zeilinsky reaction	2	13
39	Synthesis of acid chloride,ester and amide	2	13
40	Reduction of carboxillic acid ,Mechanism of decarbixylation	2	13
41	Method of formation ,chemical reaction of unsaturated monocarboylic acid	2	13,14
42	Dicarboxylic acid ;method of synthesis and effect of heat and dehydrating agents	2	14
43	Carboxylic derivative struture and nomenclature of acid chloride,anhydride	2	14
44	Relative stability	2	15
45	Reactivity of derivative	2	15
46	Physical properties, interconversion of acid derivative by nucleophilllic acyl substitution	2	16
47	Preparation of carboxylic acid derivative and chemical reaction	2	16
48	Mechanism of esterfication and hydrolysis	2	16
	UNIT 5 ORGANIC COMPOUND OF NITROGEN		
49	Preparationnitrogen.chemical reaction of nitro alkane,mechanism of nucleophile substitution in nitroarene and their reduction in acidic	2	17
50	Neutral and alkaline media ,picric ,Halonitro arene reactivity	2	17
51	Alkyl and alkyl amine reactivity strutureand nomenclature ,physical properties	2	17
52	Stereochemistry of amine	2	18
53	Separation of a mixture of primary , secondary and tertiary amines	2	18
54	Amine salts as phase transfer catalyst	2	18
55	Preparation of alkyl and alkyl amine	2	19
56	Reductive elimination of aldehyde and ketone compounds, Gabriel Phthalimide reaction	2	19,20
57	Hoffmann bromide reaction	1	20
58	Reaction of amine ,electrophillic aromatic substitution in aryl amine with nitrous acid	2	20
59	Synthetic transformation of aryldiaazonium ,azo coupling	1	20

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VEENA MEMORIAL P.G. COLLEGE B.sc1st year KARALI RAJASTHAN LECTURE PLAN

paper III

Physical chemistry year

	rhysical chemistry	year	
s.no	Topic	No of lecture	week
	Unit I mathematical concept and computer		
1	Logarithmic relation curve sketeching	1	1
2	Linear graph and calculation of slope differentiation of fuction like as kx,e ^x ,x ⁿ ,sinx,logx; maxinima	1	1
3	Partial differentiation and reciprocity relation	1	1
4	Intergration of some useful relevant function	1	1
5	Permutation and combinations	2	1,2
6	Factorial, Probility	1	2
7	General introduction to computer	1	2
8	Different component of a computer	1	2
9	Hardware and software input output device	1	2
10	Binary number and arithmetic	1	2
11	Programming ,operating system	1	2,3
	Unit 2 Gaseous state		
12	Postulate of kinetic theory of gases , continuity of state	2	3
13	Thye isotherm of vandar wall equation , realationship between critical constant and vandarwall constant	2	3
14	Root mean square ,average and most proble velocities ,qualitative discussion of the Maxwell distribution law	2	3
15	Mean free path and collision diameter , liquidfication of gas	2	3
	Unit 3 liquid state		-
16	Intramolecular force ,structure of liquid ,structural difference between liquid ,solide ,gaseous	2	4
17	Difference between liquid crystal ,solid ,classification ,stuture of nematic and cholestric phase	2	4
18	Definition of colloid and classification	2	5
19	Kinetic and electrical properties;stability,protective action ,Hardy- schulze law,	2	5
20	Gold nimber ,type of emulsion ,preparation ,etc	2	5
21	Liquid in solid ,classification ,preparation and properties ,inhibition	2	6
22	General appplication	2	6
	Unit 4 solid state		6
23	Classification of solid ,definition of space lattice ,lattice point,crystal lattice	3	7
24	Seven crystal system ,symmetry element in crystal ,type of crystal	2	7
25	Law of crystallography ,three rule include ,	1	7
26	X ray diffraction by crystal , deviation of brag equation		7,8
27	Determining the crystal structure of Nacl,kcl and cscl	1	8
	Unit -5 chemical kinetic and catalysis		
28	Chemical kinetic and its scope ,rate of a reaction ,concentration	2	8

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	,temperature,pressure ,solvent ,light catalyst Concentration ,dependence of rate ,mathematical characteristics of	2	8
29		2	9
30	Zero order, first , second , pseudo order , half life and mean life.	2	9
31	Zero order, first , second , pseudo order , individed and the discrete and	2	9,10
32	intergation Method of half life period and isolation method ,radioactive decay as a first order phenomenon,	2	10
33	Experiminal method of chemical kinetic ;conductometric	2	10
34	Effect of temperature on rate reaction, Armenius conception and sphere model,		
35	Transition theory expression for the rate constant based on		10
36	equilibrium constant and thermodynamic aspects Catalysis and classification of catalysis reaction and miscellaneous	2	11
55	example		

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VEENA MEMORIAL P.G. COLLEGE B.sc 1st year KARALI RAJASTHAN

s.no	Topic		year
333/04		Practical deliver	week
	Inorganic chemistry		
1	To analyse the given mixture into anion (acid) and cation (base) radical by wet and dry test	6	1,2,3
	Acidic radicalCH3COO, Br, I		
	Basic radical NH ₄ ⁺ ,Zn ⁺² ,M _g ⁺²		
2	To nanlyse the given mixture into 3 anion (acidic) and 3 cation (basic) by wet and dry test	6	4,5,6
	Acidic radical CO ₃ ⁻² ,So ₃ ⁻² ,cl		
	Basic radical NH4 ⁺ ,Al ⁺³ ,Ni ⁺²		
	Organic chemistry		
3	To determine functional group in given organic compound and test for element (COOH,OH,phenolic OH,CHO,CO,CONH ₂ ,NO ₂ ,Carbohydrate,aromatic ameen ,)	10	7,9,11
	Physical chemistry		
4	To determine surface tension of composition of a given mixture	2	12,13
5	To determine the percentage of composition of given mixture by viscocity method	2	14,15

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VEENA MEMORIAL P.G. COLLEGE B.sc 2nd year KARALI RAJASTHAN

Practical (inorganic,organic,physical)

s.no	Topic	Practical delivered	week
	Inorganic chemistry		
1	To determine bthe concentration of purity of compound of commercial vinager using NaOH	1	1,
2	Estimation of nickel diemethyl gycol	1	2
	Organic chemistry		
3	Determine the organic compound (COOH,C ₂ H ₅ OH,phenolic OH,C ₆ H ₅ OH,acetone,NO ₂ etc,) Physical chemistry	10	3,5,7,9 ,11
4	To determine heat of solution of solid NaCl	1	12
5	Determine the transition temperature of $Mncl_2.4H_2O$ by thermodynamic method .	1	13

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वीणा भमोरियल री.जी. कॉलेज करौली (राज०)

VEENA MEMORIAL P.G.COLLEGE B.sc 3rd year KARALI RAJASTHAN

Practical (inorganic, organic, physical)

s.no	Торіс	Lecture delivered	week
	Inorganic chemistry		
1	Preperation of sodium trioxalato ferrate III, Na ₃ [Fe(C ₂ O ₄) ₃]	1	1
2	Preperation of copper tetra amine complex or tetra amino copper sulphate [Cu(NH ₃) ₄ SO ₄]	1	2
3	Formation of trans pottosium dioxaloto di aqua chromate III	1	3
	Organic chemistry		
4	In given organic mixture identify compound A and compound B by element test and know melting point and using separation method.(benzoic acid and urea)	2	4,5
5	Identify the organic compound in the given organic substance determine its boiling point(alpha napthenol ,oxalic acid)	2	6,7
6	To identify the compound in given organic substance and also determine its melting point(m dinitro benzene,oxalic acid)	2	7,8
7	To identify the organic compound in the given organic substance and also determine its melting point (beta napthanol and urea)	2	9,10
	Physical chemistry		
8	To determine the concentration of unknown HCl solution with the help of standard NaOH solution using conductometry method	2	11

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प्राचार्य प्राचार्य वीणा मैमोरियल पी.जी. कॉलेज करौली (राज०)

VEENA MEMORIAL P. G. COLLEGE B.Sc. III year

KARALI RAJASTHAN

paper-III

LECTURE PLAN

Physical chemistry

S,no 1	Topic	Numbere of lecture	WEEK
	Unit 1 Elementary quantum mechanism		
1	Black body radiation ,planks radiation law	1	1
2	Photoelectric effect ,heat capacity	2	1
3	Bohr model of hydrogen atom and its defect	1	1
4	Compton effect ,de Broglie Heisenberg uncertainty principal	1	1
5	Sinusoidal wave ,physical interpretation of the wave fuction	1	2
6	Postulate of quatam mechanics, partical one dimensional box	2	2
7	Schrodinger wave equation for hydrogen atom	1	2
8	Separation into three equation , quatum number and their important	1	2,3
9	Hydrogen like wavefuction ,radial wave fuction and angular wave fuction	2	3
	Unit 2 Molecular orbital theory	-	
10	Basic idia ,criteria for MO from AO ,construction of MO of H ₂ ion by LACO method	2	3
11	Calculation of energy level from wave fuction	1	3
12	Physical picture of bonding and anti bonding wave fuction	1	3,4
13	Concept of sigma ,sigma anti -bonding ,pi and pi anti bonding orbital and their characteristic	2	4
14	Hybrid orbital sp ,sp ² ,sp ³ .	1	4
15	Calculation of coefficient of AO	1	4
16	H ₂ valence bond model ,comparision of MO and VB model	2	4,5
	Unit -3 spectroscopy		5
17	Introduction electromagnetic radiation, spectrum basic feature of different spectrometer	2	5
18	Statement of the Born- Openheimer approximation, degree of freedom	1	5
19	Rotational spectroscopy ,Diatomic molecule ,energy level of a rigid rotator	2	5,6
20	Selection rules ,spectral intensity ,using population distribution ,determination of bond length	2	6
21	Qualitative descripation of non rigid rotator and isotop effect	2	6
22	Vibrational spectroscopy energy level of simple harmonic oscillator selection rule	2	6
23	Pure vibrational spectrum ,intensity	2	7
24	Determination of force constant and qualitative relation force constant and bond energy	2	7
25	Effect of anharmonic motion and isotop on the spectrum	1	7
26	Idea of vibrational frequencies of different function groups	1	7,8
27	Concept of polarizability ,pure vibrational raman spectra of die atomic molecule, selection rule	2	8
28	Electronic spectroscopy	1	8

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29	Concept of potential energy curve for bonding and anti bonding molecular orbital	2	8,9
30	Qualitative description of selection rule and frank condon principal		
	Qualitative description of sigma ,pi and nMO ,their energy level s and the	2	9
	respective transition.	2	9
31	Unit 4 photochemistry		
32	Interaction of radiation with matter ,difference between thermal and photochemical process	2	10
33	Law of photochemistry ;grothus-drapper law ,stark –Einstein law		_
34	Jablonski diagram depicting various processes occurring in the exited state	1 2	10 10
35	Qualitative description of fluorescence , phosphorescence,	-	
	Non-radiative process ,quantum yield ,actinometry ,photosensitized	1	11
	reaction energy transfer process	2	12
36	Unit 5 Physical properties and molecular structure		
37	Optical activity ,polarization ,orientation of dipole in an electrical field	2	10
38	Dipole moment ,measurent of dipole moment temperature method and refractivity method	2	12
39	Dipole moment and structure of molecule	-	
40	Magnetic properties	2	13
41	Paramagnetism , diemagnetis and ferromagnetic	1	13
42	Solution general introduction	1	13
43	Ideal and non-ideal solution and their properties	1	14
44	Method of expressing concentration of solution	2	14
45	Activity and activity coefficient ,roult and Henry law ,Azeotropes-ethanol	2	14
	water system	2	15
46	Nernst Distribution law Thermodyamic derivation application	2	45
47	Dilute solution, colligative properties , relative lowering of vapour pressure	2	15 15,16
48	Molecular weight determination		
49	Osmotic pressure and its measurement ,determination	2	16
50	Osmosis pressure and its measurement	2	16
51	Determination of molecular weight from osmotic pressure	2	16
52	Elveation of boiling point and depression in freezing point	1	17
53	experimental method for determination various colligative present	2	17
54	Abnormal value and abnormal molar mass degree of dissociation and association of solutes	2	17 18

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प्रचिर्घार्य वीणा मैमोरियल पी.जी. कॉलेज करौली (राज०)

VEENA MEMORIAL P. G. COLLEGE B. Sc. III year

KARALI RAJASTHAN

LECTURE PLAN

paper-II

S.No	Торіс	No of lecture	WEEK
	Unit I NMR spectroscopy		_
1	Nuclear shielding and deshielding	2	1
2	Chemical shift and molecular structure	2	1
3	Spin-spin splitting and coupling constant	3	1
4	Area of signal ,interpretation of PMR spectra of simple organic molecule	1	2
5	Spectra of following molecule such as ethyl bromide ,ethanol ,acetaldehyyde ,1,1,2 tribromoethane, ethyl acetate ,toluene and acetophenon	2	2
6	Problem pertaining to the strutuire elucidation of simple bcompound using UV,IR,and PMR	2	2
	Unit II organo metallic compound		
7	Organo magnesium compound ,	1	3
8	Grinard reagent formation ,structure and chemical reaction ,organo zinc compound	3	3
9	Formation and chemical reaction ,organo sulphur compound	2	3
10	Nomenliture structure feature ,method of formation	2	4
11	Chemical reaction of thiols, thio ethers and Sulphonic acid ,sulphoamide	3	4
12	sulphaguanidine	1	4
	Unit III Hetrocycle		
13	Molecular orbital picture and aromatic characteristic of pyroll	2	4,5
14	Furane, thiophene and pyridine	2	5
15	Method of synthesis and chemical reaction with particular emphasis on the mechanism of electrophillic substituion	2	5
16	Mechanism of nucleophillic substitution reaction in pyridinederivative	2	5
17	Comparison of basicity of pyridine ,piperidine and pyrol	1	5
18	Introduction ton condensed five and six membered heterocycle	1	5
19	Preparation and reaction of indol, quauinoline and iso quinoline and isoquinoline with reference to fisher indole synthesis	2	5,6
20	Skraup synthesis and Bischler –Nepieralski synthesis	2	6
21	Mechanism of electrophile substitution reaction of indol ,quinolene and isoquinolene	2	6
_	Unit 4 organic synthesis via Enolate		
22	Acidity of alpha hydrogen ,Alkylation of die methyl menolate and ethyl acetate	2	6
23	Synthesis of ethyl acetoacetate	2	7
23	Claisen condensation keto enol tautomerism of ethyl acetate	2	7
25	Alkylatrion of 1,3 dithians	2	7

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27	Alkylation and acylation of enamines	2	
28	General introduction of carbohydrate and some live	1	8
29	monosaccharide mechanism of osazone formation	3	8
	interconversion of glucose and fructose	2	8,9
30	Chain lengthening and chain shorting of aldose		9
31	Configuration, Erythro ande threo diasteronmente	2	9
32	Conversion of glucose into mannose formation of al	2	9
33	coter and ethar	2	10
34	Determination of ring size	1	10
35	Cyclic structure of D glucose ,	1	10
36	Mutarotation	1	10
37	Structure of ribose and deoxyribose	1	11
38	Introduction to disaccharids and polysaccharide without is a lite	2	12
	and a determination	3	12
	Unit 5 Amino acid ,peptide,protein and nucleic		
39	classification, structure and stereochemistry of amine axid		
40	Acid –base banaviour	2	12
41	Iso electric point and electrophoresis	1	13
42	Preparation and alpha amino acid	1	13
43	Structure and nomenclature of peptide and protien	1	13
44	Classification of protein ,peptide structure determination	2	13
45	End group analysis selective hydrolysis of peptide	1	14
16	Classical peptide synthesis ,solid phase peptide synthesis	1	14
17	Structure of peptide and protein	1	14
8	Level of protein structure	2	15
9	Protien denaturation /renaturation	1	15
0	introduction constituent of nucleic acid	1	15
1	Constituent of nucleic acid	2	15
2	Consitituent of nucleic acid ,Ribonucleoside and ribonucleotide Double helical structure of DNA	2	
3 1	Natural fat's edible and industry in the	2	16
4 0	Natural fat s,edible and industrial oils of vegetable origin	3	16
5 5	common fatty acid ,glycerides ,hydrogenation of unsaturated oils	2	16
5 5	aponification value , iodine value ,acid ,soap	2	17
A	ynthetic detergent ,alkyl and aryl sulphonates	2	17
	ddition or chain growth polymerization ,Ziegler –natta	3	17,18
F	ree radical polyment in the		17,10
	ree radical polymerization, ionic vinyl polymerization,	2	18
	egler Natta polymerization and vinyl polymers	2	18
	ondensation or step growth polymerization	2	18
fc	plyester, polyamide , phenol-formaldehyde resin ,urea – rmaldehyde resin	3	19
Eţ	oxy resin and polyurethanes		
N	itural and synthetic rubbers	2	19
Co	lour and constitution classification of dues and	1	19
	- 100 100 100 IIIdidLille green crystal violat at	2	20
F2.	orescein Alizarin and indigo		1000

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VEENA MEMORIAL P.G. COLLEGE B.Sc. 2nd year KARALI RAJASTHAN

LECTURE PLAN

paper-III

c Ne	Physical chemistry	Yea	
s.No	Торіс	Number of lecture	WEE
	Unit-1 Thermodynamic -1		
1	Definition of thermodynamic term, system, surrondingetc	2	1
2	Type of system ,intensive and extensive properties, state and path function and their significance	2	1
3	Thermodynamic process, cocept of heat and work	2	1
4	First law of thermodynamic, statement , internal energy and enthalpy,	3	2
5	Heat capacity ,heat capcities at constant volume and pressure and their relationship,	2	2
6	Joule Thomson coefficientand inversion tempature	2	2,3
7	Calculation of W,q,du and dH for expansion ofideal gas under isothermal and adiabatic condition for reversible process	2	3
8	Standard state , standard enthalpy of formation hess law of heat	2	3
9	Heat of reaction at constant pressure	2	3,4
10	Enthalpy of neutralization, bond dissociation energy thermo chemical data	2	4
11	Tempature dependence of enthalpy Kirchhoff equation	2	4
	Unit ii thermodynamic II		
12	Second law of thermodynamic need for the law ,different statement of law carnot cycle and its efficiency carnot thoerm	2	4
13	Concept of entropy as a state fuction ,entropy as afuction of Vand T	3	5
14	Entropy as a fuction of Pand T , Entropy change in physical change	2	5
15	Clausius inequality and entropy as acriterion of spontaneity and equilibrium	2	5
16	Entropy change in ideal gases and mixing of gases	2	6
17	Third law of thermodynamic ,Nernst heat theorem	2	6
18	Statement and concept of residual entropy	2	6
19	Evaluation of absolute entropy from heat capacity data	2	7
20	Gibbs and Helmholtz fuction as thermodynamic quantities	2	8
21	A and G as criteria for thermodynamic equilrium and spontaneity,	2	8
22	Their advantage over entropy change .Variation of G and A with P,V and T	3	8
	Unit 3 chemical EQUILBRIUM		
24	Equilibrium constant and free energy	3	9
25	Thermodynamic derivation of law of mass action ,Le chatelier principal .	2	9
26	Reaction isotherm and reaction isochors, isochore-clapeyron and application	2	9
27	Phase equilibrium	1	10
28	Statement and meaning of term ,phase ,component and dedree of freedom	2	10
29	Gibbs phase rule, phase equil; ibria of one component system , water carban dieoxideand sulphur system	2	10

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30	Phase equilibria of two component system solid liquid equiulbria	2	11
31	Lead-silver system, solid solution compound formation with congruent	2	12
32	Melting point mg and Zn system and incongruent melting point Nacl – water system, freezinbg mixture	2	12
33	Acetone dry ice. Partially miscible liquid	2	12
34	Phenol water system	2	13
35	Lower and upper consolute temperature, effect of impurity on consulate temperature	2	13
	Unit 4 Electrochemistry I		
36	Electric transport conduction in metal and in electrolytesolution	2	13
37	Specific condunce and equivalent condunce	2	14
38	Measurement of equivalent condunce	2	14
39	Variation of equivalent and specific conduction with dilution	3	14
40	Migration of ion and Kohlrausch law .	2	15
41	Arrhenius theory of electrolyte dissociation and limitation	2	15
42	Debye –Huckle Onsager equation for strong electrolyte	2	15,16
43	Transport number	1	16
44	Determination by hittorfs method and moving boundary method	3	16
45	Application of conductivity measurement	2	16
46	Determination of degree of dissociation , determination of Ka of acid	3	17
47	Conductometric titration	2	18
	Unit 5 Electrochemistry 2		
48	Type of electrode gas metal ion electrode ,metal-metal ion electrode	2	18
49	Redox electrode ,,Electrode reaction ,Nernst equation devivation of cell EMF and single electrode potential	3	18
50	Standard hydrogen electrode ,reference electrode,standard electrode potential,sign convention ,	3	19
51	Electrochemical series and its significance	2	19
52	Electrolyte and galvanic cell Reversible and Irreversible cells	3	20
53	Conventational representation of electrochemical cell.	2	20
54	EMF of a cell and its measurement	2	20
55	Computation of cell EMF	1	21
56	Calculation of thermodynamic quantities of cell reaction , polarization	3	21
57	Over potential and hydrogen over voltage .	2	22
58	Concentration without transport , liquid junction potential	2	22
59	Application of concentration cell ,valency of ion	3	22
60	Solubility product and activity coefficient ,determination of solubility product of a sparingly soluble salt .	3	23
61	Defination of Ph using hydrogen electrode by potentio metric titration	3	23
62	Buffer mechanism of buffer action ,HendersonHazel equation	2	23
63	Hydrolysis of salts	2	23

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प्राधार वीणा मैमोरियल पी.जी. कॉलेज करौली (राज०)

Bsc 1st year KARALI RAJASTHAN

LECTURE PLAN paper- II

year

ORGANIC CHEMISTRY

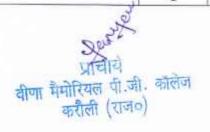
S.No	TOPIC	OF LECTURE	Week
	UNIT -1 STRUCTURE AND BONDING		
1	Hybridization, bond length and bond A ngle, bond energy	1	1
2	Localized and delocalized chemical bond, vanderwall interaction	1	1
3	Inclusion compound, clatherates, charg transfer complex	1	1
4	Resonace, Hyperconjugation	1	1
5	Inductive effect, hydrogen bonding	1	1
6	Curved arrow notation, Drawing electron movement with arrow,	1	1
7	Half headed arrow, Homolytic cleavage and Heterolytic cleavage bond breaking	1	2
8	Type of reagent electrophiles and nucleophile.	2	2
9	Type of organic reaction , Energy considerations	1	2
10	Carbocation, carbanion, free radical, carbine, Arynes, Nitrene,	2	2,3
11	Formal charge, method of determination of reaction mechanism	2	3
	Unit 2 stereochemistry of organic compound		
12	Concept of isomerism ,Type of isomerism ,optical isomerism	2	3
13	Element of symmetry ,molecular chirality enantimer,	2	3
14	Sterogenic center, optical activity, properties of enatiomer,	1	4
15	Chiral and Achiral molecule with two stereogenic center,	1	4
16	Diasteromers, thero and erthyo diastereomer , meso compound	2	4
17	Resolution of entiomer	1	4
18	D/L and R/S nomenclature	3	4,5
19	Determination of configuration of geometrical isomer, E/Z nomenliture	2	5
20	Conformational analysis of ethane and n- butane	2	5
21	Conformation of cyclohexane ,axial and equatorial bond, conformationof monosubstitued cyclohexane derivative,Nwwmann projection formulae	2	5
22	Difference between configuration and conformation	1	6
	Unit 3 alkane and cycloalkane		
23	Nomenclature, method of oreparation, chemical reaction isomerism in alkane	1	6
24	Method of preparation, physical properties	1	6
25	Chemical reaction of alkane ,mechanism of free radical halogenations of alkane	1	6
26	Orientation , reactivity and selectivity	1	6
27	Nomenciature ,method of preparation,chemical reaction	1	7

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प्राचीर्य वीणा मैमोरियल पी.जी. कॉलेज करौली (गज॰)

28	Bayer strain theory and its limitation, ring strain in small ring	1	7
29	The case of cyclopropane ring : banana bond	1	7
	Unit 4 Alkene ,cycloalkane ,Diene and Alkynes		
30	Nomenliture of alkene, method of preparation ,mechanisms of dehydration of alcohol of alkyl hailide	1	7
31	Regioselectivity in alcohol ,dehydration ,saytzeff rule, Hoffmann elimaination	1	7,8
32	Physical properties and relative stabilities of alkene	1	8
33	Chemical reaction of al;kenes mechanism involved in dehydration	2	8
34	Electrophillic and free radical ,ozonolysis ,hydration	2	8
35	Polymerization of alkenes, substation at the allylic and vinylic position of alkenes		8,9
36	Industrialapplication of ethyleneand propane, method of formation	1	9
37	Conformation and chemical reaction of cycloalkane	1	9
38	Nomenclature and classification of dienes isolated ,conjugated and cumulated diene.	1	10
39	Structure of allenes and butadiene, method of preparation,	2	10
40	Polymerization, chemical reaction 1,2and 1,4 addition, diels alder reaction	2	10
41	Alkynes Nomenclature structure and bonding in alkynes .method of preparation.	2	11
42	Chemical reaction, acidity of alkynes mechanism of electrophillic and nucleophillic addition reaction ,		12
43	Hydroboration-oxidation ,metal-ammonia reduction ,oxidation and vpolymerisation	2	12
	Unit -5 ARENES Aromaticity ,alkyl and aryl Halides		
44	Nomenliture of benzene derivative ,Aryl group aromatic nucleus and side chain structure of benzene	2	12
45	Molecular formula and kekule structure , stability and carbon –carbon bond length of benzene,	2	13
46	Resonance and Mo picture	1	13
17	Aromaticity the huckle rule aromatic ions .	1	13
18	Aromatic electrophillic subustion reaction	2	14
19	Role of sigma and pi complex .mechanism of nitration ,halogenations ,sulphonation ,mercuration and freidel-craft reation	2	14
50	Activating and deactivating substations , orientation and ortho and para ratio	2	14
51	Side chain reaction of benzene derivativeand birch reduction	1	15
52	Nomenliture of alkyl and aryl hallide , method of preparation ,chemical reaction	1	15
53	Mechanism of nucleophllic subsitution reaction of alkyl hailde	1	15
54	SN2 and SN1 reaction with energy profile diagram	1	15,16
55	Polyhalogen compound chloroform and carbon tetrachloride , method of preparation of aryl hailide ,	1	16
6	Nuclear and side chain reaction ,addition ,elimination and the elimination – addition mechanism of nucleophillic aromatic substitution reacton	2	16
57	Reactivity of alkyl ,allylic ,vinyl and aryl hailide	1	16
	Synthesis of D.D.T and B.H.C		16

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KARAULI, RAJASTHAN Lecture plan - I (2018-19) B Sc and B. Sc B Ed pt -3 Mathematics (Paper – I)

Linear Algebra and complex Analysis

5. No.	Topic	No. of Lecture	Week
	Unit – 1 : Linear Algebra		
1	Definition and examples of a vector spaces	1	I
2	Subspace of a vector space	1	I
3	Linear combination and linear span	2	1
4	Linear dependence and independence of vectors	1	I
5	Direct sums of subspaces	2	I,II
	Unit – 2 Linear Algebra		
6	Basis and Dimension of finitely generated spaces	2	Ш
7	Quotient space	1	П
8	Linear transformations	2	Ш
9	Rank and nullity of linear transformations	3	III
	Unit – 3 Linear Algebra		
10	Characteristic values and characteristics vector of matrices	3	III
11	Cayley-Hamilton theorem	1	IV
12	Diagonalization of matrices	2	IV
13	Elementary row and column transformations	2	IV
14	Solution of system linear equations by elementary transformations	3	IV,V
_	Unit -4 complex Analysis -I		
15	Complex numbers as ordered pairs, geometrical representation of complex numbers	3	v
16	Steriographic projection of complex numbers	3	V,VI
17	Limit, continuity and differentiability of complex valued functions	1	VI
18	Analytic function, Cauchy-Riemann equations	2	VI
19	Harmonic functions	3	VI,VII
20	Determination of conjugate function	2	VII
	Unit -5 complex Analysis -II		
21	Mapping or transformation, isogonal and conformal mappings	2	VII
22	Necessary and sufficient conditions for conformal mappings	2	VIII
23	Mobious transformation, fixed points	3	VIII
24	Cross-ratio, inverse points	1	VIII
25	Mappings by elementary functions	3	IX
26	Mapping $w = \frac{1}{z} \left(z + \frac{1}{z} \right)$, the inverse transformation $z = \sqrt{w}$	3	IX

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KARAULI, RAJASTHAN

Lecture plan (2018-19)

B Sc and B. Sc B Ed pt -3

Paper-2

Mathematical Statistics and Linear Programming

S. No.	Торіс	No. of lecture	Week
	Unit-1 Moments and Probability		
1	Central moments	1	Ĩ.
2	First four moment in terms of raw moments and vice- versa	1	I.
3	Karl-Pearson's and Beta and Gamma coffients	1	I.
4	Measures of skewness and Kurtosis	1	I
5	Random experiment, Sample space	1	1
6	Events, types of events	1	1
7	Probability and conditional probability of an event	1	H.
8	Independent events	1	П
9	Theorems of compound and total probabilities	1	11
10	Baye's theorems and its simple applications	1	Н
	Unit-2 Mathematical Expectations		
11	Random variable, discrete and continuous random variables	3	11,111
12	Probability distribution of a discrete random variable	1	Ш
13	Probability density function of a continuous random variables	2	111
14	Distribution functions	2	Ш
15	Mathematical expectation of a random variable	2	IV
16	Mathematical expectation of a function of random variable	2	IV
17	Moments and moment generating function	5	IV,V
18	Cumulants and cumulants generating function	3	V
19	Characteristic Functions	2	VI
	Unit-3 Discrete and continuous distributions		
20	Bernouli distribution	3	VI
21	Binomial distribution	3	VI,VII
22	Poisson distribution	2	VII
23	Normal distribution	2	VII
_	Unit-4 Linear programming problem		
24	Linear programming, variables objective function and constraints	2	VIII
25	Mathematical form of a LPP	1	VIII
26	Graphical method of solution of two variable linear programming problems	5	VIII,IX
27	Line and line segment in the Euclidean space \mathbb{R}^n	3	IX
28	Convex set, hyper convex combination and convex polyhedron	3	IX,X
29	Extreme point of a convex set	3	х
30	Basic solution of a system of linear equations	4	X,XI
31	Slack and surplus variables	2 10	ע און אין אין אין אין אין אין אין אין אין אי
32	Standard form of a LPP and their feasible solution	2 David	XI,XII

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33	Basic feasible solution and optimal basic feasible solution of a LPP	3	XII
34	Replacement of basis vector, improved BFS	2	XII
35	Unbounded solutions	2	XIII
36	Condition of optimality	2	XIII
37	Simplex algorithm	2	XIII
38	Artificial variables	2	XIV
39	Charne's Big-M method	2	XIV
	Unit-5 Duality and Assignment Problems		
40	Dual and primal LPP	6	XIV,XV
41	Standard form of primal problem	3	XV,XVI
42	Formation of dual of a standard primal problem	4	XVI
43	Fundamental theorem of duality	3	XVI,XVII
44	Solution of a LPP by solving its dual by simplex method	6	XVII,XVII
45	Assignment problems	8	XVIII,XIX

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 मैंनोतियल्रामीओ. कॉलेज वीण

KARAULI, RAJASTHAN Lecture plan (2018-19) B Sc and B. Sc B Ed pt -3 Paper-3

Numerical Analysis and C- programming

S.No.	Topic	No. of lecture	Week
	Unit-1 Principles of C- Programming		
1	Algorithms, Flowcharts, constants and variables	2	1
2	Data type, Declaration of storage class	2	1
3	Assigning values of variables, symbolic constant	2	1
4	Operators and expressions	2	11
5	Common I/O operators decision making	2	11
6	Branching and loops: if, if-else, nested if-else	2	11
7	WHILE, DO, for loop	3	10
8	While statement, switch-case statement	2	111
9	Array: One dimensional, Two dimensional	2	III,IV
10	Initialization of two dimensional arrays	2	IV
	Unit-2 User defined function in C and Operators		
11	Function declaration	1	IV
12	Calling a function and category of function	1	IV
13	Nesting of functions recursion, pointers	1	IV
14	Operators :Forward difference, Backward difference, shift and inverse shift operators	1	V
15	Differentiation-D, central difference, mean difference operators	1	V
16	Central sum, divided difference operator	1	V
17	Relation between various operators	1	V
18	Forward and backward difference table	1	V
19	Factorial notations	1	V
	Unit-3 Interpolation		
20	Interpolation with equal intervals	1	VI
21	Interpolation with unequal intervals	1	VI
22	Central difference interpolation	1	VI
23	Inverse interpolation	3	VI
	Unit-4 Numerical differentiation and Integration		
24	Numerical differentiation	1	VII
25	Numerical integrations: Trapezoidal rule	1	VII
26	Weddle rule	1	VII
27	Simpson's rules	1	VII
28	Gauss quadrature formula	1	VII
	Unit-5 Solution of equations	-	
29	Solution of equations by bisection method	3	VII,VIII
30	Solution of equations by Regula - Falsi method	3	VIII
31	Solution of equations by Newton-Raphson method	3	VIII,IX
32 /	Solution of ordinary differential equations by Picard's method	4	IX
33 /	Solution of ordinary differential equations by Euler's method	4	X

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प्रीत्यप्र प्रीचार्य वीणा मैमोरियल पी.जी. कॉलेज जगैर्ला (राज०)

KARAULI, RAJASTHAN

Lecture plan - I (2018-19)

Mathematics (Paper – III)

Numerical analysis and C Programming

S.No.	topic	Practical delivered
1	To find the sum of harmonic series	2
2	To solve the quadratic equation	2
3	Evaluation of binomial coefficient using do and while loops	2
4	To print a grouped frequency table using switch case statements	2
5	To find minimum cost of operation which consists two components using Break and continue statements	2
6	To calculate the average of numbers	2
7	To sort a matrix using array	2
8	To sort a list and calculate its median using array, if – then - else	3
9	To find the Area of curve using trapezoidal rule	2
10	To copy one string into another string	2
11	Writing a string using % format	2
12	To form a grouped frequency table using array and for loop	2
13	To calculate the standard deviation of given data using array, if and break statement	3
14	To open a file and appending using pointers	3

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प्राचार्य पल वीणा मैमोरियल पी.जी. कॉलेज करौली (राज०)

KARAULI, RAJASTHAN

Lecture plan - I (2018-19) B.Sc. B.Sc. B. Ed part-I

Mathematics (Paper – I)

Number system and Abstract Algebra

S. No.	Topic	No. of Lecture	Week
	Unit – 1 : Divisibility Theory		
1	Division Algorithm	1	1
2	Greatest common Divisor and its algorithm	1	1
3	Linear Diophantine equations of two variables	2	1
4	Fundamental theorem of arithmetic	1	1
5	Congruences	2	1.11
6	Chinese Remainder Theorem	1	11
7	Euler phi - function and Primitive Roots	1	11
8	Binary Operation, Addition and multiplication modulo operations	1	11
9	Definition of Group with Examples and simple properties	2	11
	Unit – 2		
10	Permutation Group	1	111
11	Cycle, transpositions, Even and Odd permutations	1	111
12	Alternating Group	2	111
13	Order of an element of a group and its properties	2	111
14	Subgroups of a groups of a group with its properties	3	1V
15	Cyclic groups and their properties	3	IV
16	Cosets	3	V
17	Index of a subgroup	1	V
18	Lagrange theorem and its applications	2	V
	Unit-3		
19	Normal Subgroups with properties	3	VI
20	Quotient Groups	2	VI
22	Group Homomorphism with its kernel and properties	2	VLVII
23	Isomorphism	3	VII
24	Cayle's theorem	1	VII
25	Automorphism	2	VII,VIII
26	Fundamental theorem of homomorphism	1	VIII
-	Unit -4		
27	Rings	2	VIII
28	Zero Divisors	2	VIII
29	Integral Domains	1	IX
30	Field	2	IX
31	Characteristic of Ring	2	IX
32	Subrings	2	IX,X
33	Subfield	2	X
34	Prime field	2	Х
35	Ring homomorphism	3	X,XI
36	Ring Isomorphism	2	XI
37	Idea's and their properties	3	XI,XII
	Unit -5	N.V.	
38	Principal ideals and principal ideal ring	100 VY 3	XII

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39	Prime ideal	2	
40	Maximal ideal	2	XII
		2	XIII
41	Fundamental theorem of ring homomorphism	1	XIII
42	Euclidean ring and its properties	2	XIII
43	Polynomial over a ring	2	
44	Polynomial ring	2	XIII,XIV
45	Polynomial over an integral domain and a field	2	XIV
-TAP	A orynomial over all integral domain and a held	2	XIV

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Paper-3	
Vector Calculus and Coordinate Geometry	Y

no.	Topic	No. of lecture	WEEK
	Unit-1	2	1
1	Vector Differentiation	2	1
2	Vector Integration	2	1
3	Gradient and problems on gradient	2	11
4	Divergence and problems on divergence	2	11
5	Curl and problems on curl	2	н
6	Vector identities	3	10
7	Line and surface integrals	2	111
8	Gauss divergence theorem and their applications	2	III,IV
9	Green's theorem and their applications	2	IV
10	Stoke's theorem and their applications	2	1.
	Unit-2	1	IV
11	Parabola, standard equations	1	IV
12	Parabola in parametric coordinates	1	IV
13	Length of chord of parabola	1	V
14	Tangent and normal of parabola and its properties		V
15	Two tangents from a point of parabola	1	V
16	Chord of contact of parabola	1	V
17	pole and Polar of parabola	1	V
18	Chord with given middle point of parabola		V
19	Diameter and three normal from a point of parabola	1	V
20	Ellipse and their standard equations	1	VI
21	Auxiliary circle of ellipse	1	VI
22	Eccentric angle of ellipse and related problems	1	-
23	Tangent, Normal, two tangent from a point of the ellipse	3	VI
24	Chord of contact of ellipse	1	VII
25	pole and Polar of ellipse	1	VII
26	Chord whose middle point is given	1	VII
20	Diameter and conjugate diameter of ellipse	1	VII
27	Four normal from a point of ellipse	1	VII
20	Unit-3		
29	Hyperbola and its standard equations	1	VII
30	Parametric equation of hyperbola and related problems	2	VIII
31	Asymptotes, equation referred to as axes of hyperbola	2	VIII
32	Conjugate diameter of hyperbola and rectangular hyperbola	2	VIII
33		1	IX
33	The second se	1	IX
34	r t t sellere and hunarhola	2	IX
1000		1	IX
36	the time to the second pormal polar and	2	IX,X
37	asymptotes		
38	Unit-4		x
39	f the second sec	1	
40	Plana section of sphere	1	X
V.41	table of intersection of two spheres	1	X

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12	Power of a point with respect to a sphere	1	X
12	Tangent plane, polar plane and polar line of sphere	1	X
13	Angle of intersection of two spheres	1	XI
44	Length of tangent of sphere	1	XI
45	Radical plane and radical axis of sphere	1	XI
46	Co-axial system of spheres	1	XI
(*. 7) (Limiting points of sphere	1	XI
48	Cone, homogeneous equation of cone in x, y, z variables	2	XI,XII
49	Cone with given vertex and given base	1	XII
50		1	XII
51	Enveloping cone Condition for the general equation to represent a cone	1	XII
52		1	XII
53	Tangent plane of cone	1	XII
54	Reciprocal cone Angles between two lines, in which a plane cuts a cone	1	XIII
55	Three mutually perpendicular generators and right circular cone	1	XIII
56		1	XIII
57	Right circular cylinder	1	XIII
58	Enveloping cylinder Unit-5		
		1	XIII
59	Central conicoid and its standard equations Tangent plane and condition of tangency of central conicoid	1	XIII
60	Tangent plane and condition of tangency of central contexts	1	XIV
61	Director sphere of central conicoid	2	XIV
62	Polar plane, polar lines of central conicoid	1	XIV
63	Section with given center of central conicoid	2	XIV
64	Enveloping cone and enveloping cylinder of central conicoid	3	XV
65	Ellipsoid: Normal, six normal from a point	1	XV
66	Cone through six normal	2	XV
67	Conjugate diameters and their properties of ellipsoid	2	111

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Paper-2 Advanced calculus

S. No.	Advanced calculus Topic	No. of lecture	Week
	Unit-1	no. or recture	week
1	Polar coordinates	1	310
2	Angle between radius vector and tangent	1	1
3	Polar sub tangent and subnormal	1	
4	Perpendicular from pole on tangent	1	1
5	Pedal equation of a curve	1	
6	Derivative of length of an arc in Cartesian and polar coordinates	1	1
7	curvature	1	Ш
8	Radius of curvature and its formula in various forms	1	11
9	Centre of curvature	1	.11
10	Chord of curvature	1	Ш
	Unit-2		
11	Partial differential coefficient of a function of two or more variables	3	11,111
12	Total differential coefficient	1	111
13	Composite function		
14	Euler's theorem on homogeneous function of two , three and m – variables	2	Ш
15	First and second differential coefficient of an implicit function	2	III
16	Taylor's theorem for a function of two variable	2	IV
17	Jacobians with properties	5	IV,V
18	Maxima, minima and saddle points of function of two and three variables	3	V
19	Lagrange's method of undetermined multipliers	2	V
	Unit-3		
20	Asymptotes	3	VI
21	Envelopes	3	VI
22	Evolutes	2	VII
23	Test for point of inflexion and multiple points	2	VII
24	Test for concavity and convexity	2	VII
25	Tracing of curves in Cartesian and Polar coordinates	4	VIII
26	Unit-4	199 7 2	
27	Quadrature	3	VIII,IX
28	Rectification	3	IX
29	Volumes and surface of solid of revolution	3	IX,X
30	Differentiation under the sign of Integration	4	X
	Unit-5	0.150	0
31	Beta and Gamma functions	6	X,XI
32	Double integrals and their Evaluation by changing of	0	XI,XII
	order and changing into polar coordinates	6	льлі
33	Triple integrals and their Evaluation	4	XII,XIII
34	Dirichlet's double and triple integrals with their Liouville's extention	3	XIII

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VEENA MEMORIAL DEGREE COLLEGE

KARAULI, RAJASTHAN

Lecture plan - I (2018-19)

Mathematics (Paper – I)	
Number system and Abstract Algebra	Practical

S. No.	Торіс	Practical delivered
1	Form graph of polynomial of four or more degree	2
2	Simplification of logical circuits using Boolean algebra	2
3	Formation of truth table of Boolean functions	2
4	Curve tracing of plane curves including polar curves	6
5	Application of fundamental theorem on morphism of groups	3
6	Find roots of algebraic equation by graphical method	3
7	Application of Lagrange's theorem	3
8	Problems related to permutations and permutation groups	4
9	Problems related to ring	- 4
10	problems related to Kuttak	4

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Veena Memorial P.G college, Karauli (Rajasthan)

Lecture Plan

B.Sc./B.Sc.B.Ed PART III(PHYSICS) 2022-23

Paper-I - Solid State Physics

S.N	Name of Topics	No. of Lecture	Week
21	Unit – I	12	196.5
1.	Crystal Binding and Crystal Structure: Crystal bonding, ionic bond, binding energy of ionic crystal, determination of the repulsive exponent,	1	21
2.	covalent bonding, metallic bonding, molecular or Vander Waal's bonding, hydrogen bonding, Space lattice and Crystal structure	2	31.5
3.	reciprocal lattice, Bravis lattice, Miller indices and crystal structure, Spacing of planes in Crystal Lattice,	1	1
4.	Atomic Packing, Simple cubic structure, Face centered cubic structure,	2	1
5.	Hexagonal closed packed structure, Pervoskite structure, X-ray diffraction and Bragg's law, Laue pattern. UNIT- II	1	11
6.	Thermal Properties of Solids, Concepts of Thermal Energy and Phonons, Internal Energy and Specific Heat,	2	11
7.	The Various theories of Lattice specific Heat of Solids, The Einstein Model, Vibrational Modes of Continuous Medium	2	Ш
8.	Debye Model, Electronic Contribution of the internal Energy to the Specific Heat of Metals, Thermal Conductivity of the Lattice UNIT-III	2	11,111
9.	Band Theory of Solids, Formation of bands, Periodic Potential of a solid, Wave function in a Periodic Lattice and Bloch Theorem,	2	10
10.	Number of States in the Band, Kronig Penny model, Velocity of the Bloch electrons and Dynamical effective mass,	2	111
11.	Momentum, Crystal Momentum and Physical Origin of the Effective Mass, Negative Effective Mass and Holes	4	III,IV
12.	distinction between metals, insulators and intrinsic semiconductors.	3	IV
	UNIT-IV		
13.	Electrical Conductivity, Drude-Lorentz Theory of Electrical Conductivity, Boltzman Transport Equation,	4	V
14.	Sommerfield Theory of Electrical Conductivity, Mathiessen's Rule, Thermal Conductivity and Widemann-Franz'sLaw, The Hall Effect	4	V,VI
15.	Superconductivity, Introduction, Meisner's effect, The Isotope Effect and Electron-Phonon Interaction,	3	VI
16.	The Effect of the Superconductivity Transition on properties, Special Features of Superconducting Materials,	2	VI,VII
17.	London's equation, Flux Quantization, Qualitative discussion of BCS Theory of Superconductivity,	3	VII
18.	Cooper Pairs, Applications of Superconductors, Josephson Junction	3	VII,VIII
	O UNIT-V		
19.	Magnetic Properties, Origin of Atomic Magnetism, Dynamic of Classical Dipole in Magnetic field,	4	VIII
20.	Magnetic Susceptibility, Phenomenon of Diamagnetism, Paramagnetism, Paramagnetism of Ionic Crystal,	3	VIII,IX

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21.	Ferromagnetism, Temperature Dependance of saturation of Spontaneous Magnetization,			
22.	The Paramagnetic Region, The nature of ferromagnetism, Nature and Origin of Weiss Molecular Field	3	IX	1
23.	Heisenberg's Exchange Interaction, Quantum Theory of Ferromagnetism,	3	IX,X	
24.	Relation between Jo (Exchange Integral)	4	X	1
25.	and I (Weiss Constant), Ferromagnetism Domain	3	XI	

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Veena Memorial P.G college, Karauli (Rajasthan)

Lecture Plan B.Sc./B.Sc.B.Ed PARTIII(PHYSICS) 2022-23

Paper-II- Nuclear Physics

.N	Name of Topics	No. of Lecture	Week
	Unit – I	4	1
k	Nuclear Properties: Rutherford's scattering and Nucleus model of atom, Properties of Nuclei, Mass, Charge,	1	
<u>.</u>	Estimation of charge density, size, density, spin, parity, statistics, magnetic dipole moment,	2	1
3.	Electric Quadrupole Moment, Mass Defect and systematics of Binding energy, Constituents of nucleus	1	1
4.	Discovery of neutron and proton-neutron hypothesis, Nuclear potential, Nuclear Force, Liquid drop model	2	1
5.	Semi Empirical Mass formula and its applications; 1. Alpha decay, 2. Mass Parabola, 3. Mirror Nuclei	1	В
6.	Nuclear Mass measurements, Aston's Mass Spectrograph, Double Focussing Msss Spectrograph and Doublet method	2	11
-	UNIT-II		
7.	Nuclear Fission:- The Discovery of Nuclear Fission, The Energy Release in Fission, Mass and Energy distribution of fission products,	2	11
8.	Neutron emission in fission, Eenrgetics of Spontaneous fission, Bohr Wheeler theory and Quantum effects	2	11,111
9.	Neutron induced fission, Fission cross-section and threshold, Nuclear Fission as a source of Energy,	2	10
10.	The Nuclear Chain Reaction, condition of controlled chain Reaction, The principal of Nuclear Reactors	2	111
11.	classification of Reactors, Typical Reactors, Power of Nuclear Reactor, Critical size of Thermal Reactors	4	111,IV
12.	The Breeder Reactor, Reprocessing of the Spent Fuel, Physical, Chemical and Biological effects of nuclear radiations, Radiation hazards.	3	IV
	UNIT-III		
13.	Nuclear Fusion: Nuclear Fusion reactions, The sources of stellar Energy, The problems of controlled nuclear fusion,	4	V,VI
14.	full-Matter Fusion Reaction Energy	3	VI
15.	the Magnetic Container	2	VI,VII
16.	- Product Market Control of Contr	3	VII
17.	the station of Elementary Particles	3	VII,VIII
18	the state of the segree pation lower Quarks	4	VIII
-	UNIT-IV		
19	Coole Coole Walton High Voltage	3	VIII,IX
20	A structure to Encursing In cyclotron	3	IX
21	The Austion Accolorator Electron	3 Course	IX,X



-	Synchrotron, Proton Synchrotron.		1
	UNIT-V		V
22.	Particle and Radiation Detectors: Ionisation Chamber, Region of	4	^
	Multiplicative Operation	4	XI
23.	Proportional Counter, Geiger-Muller Counter, Cloud Chamber	3	XI,XI
24.	Cosmic Rays: Discovery of Comic Rays, Nature of Cosmic Rays,		
	soft	3	XI
25.	hard component variation in cosmic rays-	-	
	(1) Latitude Effect	17	XI,XII
26.	2) East-West Asymmetry Directional Effect	3	1 Marine 1
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Lecture Plan

B.Sc./B.Sc.B.Ed PART III(PHYSICS) 2022-23

Paper III - Elementary Quantum Mechanics and Spectroscopy

S.N	Name of Topics	No. of Lecture	Week
1,	Unit – I Experimental Evidence of Quantum Theory: limitations of classical theory to explain, specific heat of solids, Black Body Radiation, Planck's quantum hypothesis and qualitative discussion of radiation law,	1	1
2.	photoelectric effect, Compton effect, Matter Waves,	2	1
3.	De Broglie relation, Davison Germer experiment, electron 1 I Interference experiment, Uncertainity principle		î
4.	 (i) Position & moments (ii) Energy & Time (iii) Angular displacement and momentum. 	2	1
5.	 (i) Position & moments (ii) Energy & Time (iii) Angular displacement and momentum. its application such as (i) Non existence of electron in nucleus, 	1	П
6.	ii) Ground state energy of H-atom, (iii) Ground state energy of harmonic oscillator (iv) Natural width of spectral lines.	2	11
7.	UNIT-II Schrodinger's Wave Mechanics: Schrodinger's equation, Its need and justification, time dependent and time independent forms, physical significance of the wave function and its interpretation, probability current density	2	11
8.	Operators in quantum mechanics, Definition of an operator, linear and Hermitian operators, State function, Expectation value of dynamical variables, position momentum and energy, Fundamental postulates of quantum mechanics,	2	11,111
9,	Eigenfunction and eigen values, Degenracy. Orthogonality of eigenfunction, Commutation relations	2	HI
10.	Ehrenfest's theorem and complementarity wave packet, group and phase velocities, Principle of superposition	2	III
11.	construction of one dimensional wave packet, its momentum representation, (Fourier transform),	4	III,IV
12.	Gaussian wave packet its momentum representation (Fourier transform) Gaussian wave packet, Diffraction at a single slit, Uncertainty principle.	3	IV
	UNIT-III		
13.	Simple solution of Schrodinger's Equation: Time independent Schrodinger equation and stationary state solution,	4	V,VI
14.	Boundary and continuity conditions on the wave function, particle in one dimensional box	3	VI
15.	Eigenfunction and eigenvalues, discrete energy levels, generalisation to three dimensions and degenaracy of levels	2	VI,VII
16.	Potential steps and rectangular potential barrier, calculation of reflection and transmission coefficient.	3	VII
17.	Qualitative discussion of the application to alpha decay, Square well potential problem calculation of transmission coefficien UNIT-IV	3	VII,VIII
18.	Bound state problems : Particle in one dimensional infinite	4	VIII .

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	values and eigenfunction,		
19.	transcedental equation and its solution, Simple harmonic oscillator (one dimensional case) and qualitative discussion of its eigenfunctions, energy eigenvalues. Zero point energy,	3	VIII,IX
20.	parity symmetric and antisymmetric wave function's with graphical representation. Schrodinger equation for a spherically symmetric potential, Schrodinger equation for a one electron atom in spherically coordinates	3	IX
21.	separation of variables, Orbital angular momentum and quantization spherical harmonics, energy levels of H-atom, Shapes of n = 1 and n = 2 wave functions, Average value of radius of H-atom	3	IX,X
	UNIT-V		
21.	Applications of Quantum Theory to Atomic Spectroscopy: Quantum features of spectra of one electron atoms, Frank–Hertz experiment and discrete energy states, Stern and Gerlach experiment, spin	4	x
22.	magnetic moment, Spin orbit coupling and qualitative explanation of fine structure, Atoms in magnetic field Zeeman spliting, Stark Effect	4	XI
23.	Molecular Spectroscopy: Qualitative features of molecular spectra, Rigid rotator discussion of energy, eigenvalues and eigenfunction	3	xi,xi
24.	rotational energy levels of diatomic molecules, Rotational spectra, vibrational energy levels of diatomic molecules	3	XI
25.	vibrational spectra, vibrational rotational spectra	3	XI,XII

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Veena memorial P.G College, Karauli (Rajasthan)

Lecture plan: 2018-19

B .Sc/ B.Sc. B.Ed. -II (Mathematics)

S.N	Topic	No. of lecture	Week
	Unit –I		
1.	The set real numbers as a complete ordered field	2	I
2.	Incompleteness of Q	2	I
3.	Archimedean and denseness properties of R	2	I
4.	Modulus	1	П
5.	Intervals	2	П
6.	Definition of sequence	1	11
7.	Theorems on limit of sequence	2	II
8.	Bounded and monotonic sequence	2	III
9.	Nested interval theorem	2	III
10.	Cauchy's sequence	2	III
11.	Cauchy's convergence criterion	1	IV
A.0415	Unit-II		
12.	Convergence of series of non - negative terms	2	IV
13.	Various tests: comparison; D' Alembert's ratio	1	IV
14.	Cauchy's nth root	1	IV
15.	Raabe's test	1	IV
16.	Gauss Test	1	V
17	Logarithmic test	1	V
18.	Demorgan and Bertand's test	2	V
19.	Cauchy's condensation	1	V
20.	Proof of tests not required only for convergence	1	V
21.	Alternating series	2	VI
22.	Leibnitz's test	1	VI
23.	Series of arbitrary terms	2	VI
24	Absolute and condition convergence	1	VI
25.	Abel's and Dirichlet's tests	2	VII
20.	Unit-III		
26.	Equivalent sets	1	VП
	Finite and infinite sets denumerable set	2	VII
27.		1	VII
28.	Countable and uncountable sets	1	VIII
29.	Interior point of a set	1	VIII
30.	Open set	2	VIII
31.	Limit point of a set Bolzano- Weierstrass theorem	1	VIII
32	Closed set	2	VIII, D
33.	Dense in itself and perfect sets	2	IX
34	Cantor's ternary set	2	IA
3.6	Unit- IV	1	IX
35.	Definition of limit of a function	1	IX
36	Continuity of a function - Cauchy's and Heine's Definition with	2	IX
27	their equivalence	1	X
37.	Type of Discontinuities	2	X
38.	Properties of continuous functions defined on closed intervals	2	X
39.	Uniform continuity		
40.	Differentiability: Role's theorem	2	X, XI
41.	Lagrange's and Cauchy's mean value theorems and their geometrical interpretations	Carles	XI

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	C	2	XI
42.	Taylor's theorem with various forms of remainders	2	XII
43.	Darboux's intermediate value theorem for derivatives	-	
	Unit-v	2	XII
44.	Darboux sums and their properties	3	XII, XIII
45.	Diamann integral	3	XIII
46.	Integrability of continuous and monotonic functions	2	XIII
47.	Mean value theorems of integral calculus	2	XIV
48.	The fundamental theorem of integral calculus	4	XIV
49.	Improper integrals and their convergence comparison tests	2	XV
50.	Abel's and Dirichlet's tests		

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Lecture Plan: 2018-19

B .Sc/ B.Sc. B.Ed. -II (Mathematics)

Differential equations (Ordinary and Partial)

5.N	r – II Differential equations (Ordinary and Partia Name of Topics	No. of Lecture	Week
	Unit – I		
1.	Order and Degree of a differential equation	2	1
2.	Differential equations of first order and first degree	2	1
3.	Variables separation	2	1
4.	Homogeneous equations	2	11
5.	Linear equation and equations reducible to linear form	2	11
6.	Exact differential equations and equations reducible to exact form	2	11
7.	Differential equations of first order but not first degree	4	111
8.	Solvable for x, y, p Clairaut's form	4	111, IV
9.	Singular solutions	4	IV
9.	Geometrical meaning of a differential equation	2	V
	Orthogonal trajectories	4	V
11.	Unit – II		
12.	Linear differential equation with constant coefficients	6	VI
	Homogeneous linear differential equations	3	VII
13.	Total differential equations	6	VII, VIII
14.	Unit - III		
15	Linear differential equations of second order	3	VIII
15.	Transformation by changing the dependent / independent variable	3	1X
16.	Method of variation of parameters	3	1X
17.	Exact differential equations and certain particular forms of equation	3	X
18.			
+)	Unit – IV	6	X, XI
19	Partial differential equations of fist order	6	XI, XII
20.	Lagrange's solution	6	X11, X111
21.	Charpit's general method of solution		
	Unit – V	4	XIII, XIV
22.	Partial differential equations of second and higher orders	4	XIV
23	Classification of linear partial differential equations of second order	4	XIV, XV
24	Homogeneous and non – homogeneous equations with constant coefficient		
25.	Partial differential equations reducible to equations with constant coefficients	4	XV, XVI
	Monge's method	4	XVI

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Lecture plan: 2018-19

B .Sc/ B.Sc. B.Ed. -II (Mathematics)

Mechanics (Statics and Dynamics)

S.N	Name of topic	No. of lecture	Week
	Unit – I		
1.	Analytical condition of equilibrium of rigid body under coplanar forces	15	1,11,111
2,	Friction	15	III, IV,V
_	Unit – II		
3.	Center of Gravity	12	VI, VI
4.	Common Catenary	12	VIII, IX
	Unit – III		
5.	Simple harmonic motion	6	Х
6.	Motion under repulsion varying as the distance from a point	6	XI
7.	Motion under inverse square law	4	XII
8.	Motion under earth's attraction	4	XII, XIII
9.	Hooke's Law	4	XIII
10.	Horizontal and vertical elastic strings Rectilinear motion in a resisting medium	6	XIV
	Unit – IV		
11.	Velocity and acceleration along radial and transverse direction and along tangential and normal directions	6	XV
12.	Projectiles	6	XVI
13.	Motion on horizontal and inclined planes	6	XVII
	Unit – V		
14.	Direct and oblique impact	6	XVIII
15.	Constrained motion – Circular and Cycloidal	6	XIX

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Paper - III

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VEENA MEMORIAL PG COLLEGE KARAULI B.SC.PART 1 PAPER 1 INORGANIC CHEMISTRY SESSION 2020-2021

S.No.	Topic	Lecture	Week
	Unit 1 Atomic Structure		
1	Idea of de broglie matter waves	1	I
2	Heisenbergs principle	2	1
3	Atomic orbital shrondinger equation	3	1
4	Quantum numbers shapes of orbitals	4	П
5	Aufbau, pauli, hunds rules	2	11
6	Effective nuclear charge radii ionization energy	5	III
7	Electron affinity	2	Ш
_	Unit 2 Chemical Bonding		
8	VBT	2	IV
9	Hybridization	3	IV
10	Shapes of molecules	3	IV.V
11	Vsepr theory	3	V
12	Bond energy	3	V,VI
13	M. O. Theory	5	VI,VII
	Unit 3 Ionic Solid		
14	Lattice deffects	2	VII
15	Lattice energy	3	VII
16	Solvation energy	3	VIII
17	Solubility	2	VIII
18	Polarizability and metallic bond	4	VIII, IX
19	Hydrogen bonding	2	IX
20	Vander waals forces	3	IX.X
	Unit 4 S Block Elements And Chemistry Of Xenon		
21	Diagonal relationship	4	X
22	Comperative study	5	XI
23	Hydrides	2	X
24	Solvation and complexation tendency	4	XII
25	function in bio system	2	XII
26	Alkyl and aryl of s block elements	4	XIII
27	Properties of noble gases	2	XIII
28	Chemistry of xenon	3	XIV
29	structure and bonding in xenon compound	3	XIV
30	Comperative study of p block elements	3	XV
	Unit 5 chemistry of compouns		
31	Borazine	2	XV
32	Fullerene	1	XV
33	Carbides	3	XVI
34	Silicates	3	XVI
35	Interhalogen compounds	3	XVI
36	S4n4	2	XVII
37	Hudrides of boron	4	XVII XVII, XVIII

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VEENA MEMORIAL PG COLLEGE KARAULI

B.SC. PART 3 PAPER1 INORGANIC CHEMISTRY SESSION 2018-2019

S.No.	Topic	No of Lecture	Week
	Unit 1 Hard and Soft Acids and Bases	-	-
1	Classification of acids and bases	4	1
2	Pearsons theory	2	1
3	Strength	2	11
4	Symbiosis	1	11
5	Theortical basis of hardness and softness	3	n
6	Electronegativity	2	10
7	Applications of hsab	3	10
	Unit 2 Metal Ligand Bonding In Transition Metal Complexes		
8	Limitation of vbt	2	III,IV
9	Elementary idea of cft	2	IV
10	Cfse in octa, tetra, and square planar complexes	4	IV,V
11	Factor affecting of cfse	4	V
12	John teller distortions	1	VI
13	Applications of cftmagnetic properties of complexes	3	VI
	Unit 3 Electronic Spectra Of Transition Metal Complexes		
14	Types of electronic transition	3	VI,VII
15	Selection rule for d-d transition	3	VII
16	Ground states	3	VII,VIII
17	Orgel diagramthrmodynamic and kinetic aspects	3	VIII
18	Factor affecting of stability	2	VIII
19	Substitution reaction of square planar complexes	3	IX
	Unit 4 Organometallic Chemistry		
20	Definition, nomenclature, and classification of organometallic compounds	3	IX
21	Preparation, properties, bonding, and applications of alkyl and aryls of Li.	6	x
22	Al	3	XI
23	Hg	3	XI
24	Sn	3	XII
25	Ti	3	XII
26	Homogeneous hydrogenation	1	XIII
27	Carbonyls	4	XIII
28	Individual carbonyls	4	XIV
	Unit 5 Bioinorganic Chemistry		
29	Essential and trace elemets	2	XIV
30	Porphyrin	2	XV
31	Haemoglobin and myoglobin	4	XV
32	Biological role of alkali and alkali earth metals	3	XVI
33	Nitrogen fixation	3	XVI
34	Silicon	4	XVII
35	Phosphenes	4	XVII, XVII

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VEENA MEMORIAL PG COLLEGE KARAULI B.SC PART 2

PAPER 1 INORGANIC CHEMISTRY

SESSION 2019-20

S.No.	Торіс	No. Of Lecture	week
	Unit 1		
	Chemistry Of Elements Of First Transition Series		
1	Definition of transition elements	1	1
2	Characterstics properties of d- block elements	5	1
3	Binary compounds	3	н
4	Coordination number and geometry	5	11, 111
	Unit 2 Chemistry Of Elements Of Third Transition Series		140.00
5	General characterstics	4	
6	Comparative treatment with their 3d series, Spectral and stereochemistry	6	IV
	Unit 3 Coordination Chemistry	75	
7	Werners Theory	3	v
8	EAN	2	VI
9	Chelates		1.5.0
10	Nomenclature of compounds	4	VI
11	Isomerism	4	VII
12	VBT	3	VII,VII
	Unit 4 Chemistry Of Lanthanide And Actinides		
13	Electronic structure, oxidation states, radii	5	VIII
14	Contraction	2	IX
15	Complexation Tendency	4	IX
16	Lanthanide compounds in oxidation states	4	x
17	Lanthanide compounds	6	X,XI
18	General features of actinides	4	XI
19	Separation of np , pu , am from U	3	XII
20	Difference between In and an.	3	XII
	Unit 5 Acids And Bases, Non Aqueous Solvents , Oxidation And Reduction		
21	Arrhenius and bronsted lowry	4	XIII
22	Lux flood Theory	3	XIII,XIV
23	Solvent system, conjugated acid base pair	3	XIV
25	Lewis concept	3	XV
26	Physical properties of solvents	3	XV
27	Types of solvents	2	XVI
28	Features	3	XVI
29	Reaction in nh ₃ and so ₂	6	XVI.XVII
30	Redox cycle	4	XVII
31	Water stability region	1	XVII
32	Frost diagrams linear points	2	XVIII
33	Latimer diagram	2	XVIII
34	Pourbax diagrams	2	XVIII
35	Extraction of elements	1	XIX

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part I Subject/Paper- Botany paper – I Diversity of microbes & Cryptogams (Thallophyta)

S. No.	Topic	No. of Lecture	Weeks
	UNIT – I		
	Viruses & Bacteria		
1	A general account of viruses and Mycoplasma	10	І, П
2	Bacteria – structure	2	11
3	Nutrition	4	Ш
4	Reproduction	4	III, IV
5	Economic importance	1	IV
6	General accounts of cyanobacteria	1	IV
7	Economic importance	1	IV
8	Nostoc Oscillatoria	2	IV, V
	UNIT-II		
1	Algae, general characters, classification, and economic importance	3	V
2	Important features and life history of Chlorophyceae	1	v
3	Volvox, Oedogonium	4	V. VI
4	Coleochaete, Chara	4	VI, VII
	UNIT -III		
1	Algae, general characters	1	VII
2	Classification and economic importance, important features and life history of Xanthophyceae	3	VII
3	Vaucheria	2	VII, VIII
4	Phaephyceae, Ectocarpus	4	VIII
5	Sargassum	2	VIII, IX
6	Rhodophyceae – Polysiphonia	3	IX
	UNIT-IV		
1	Fungi: general characters classification and economic importance, important features and life history of Mastigomycotina	3 Nev	IX, X
2	Phytophthora Oomycotina Albugo Ascomycotina saccharomyces. Penicillium, Erysiphae		X, XI
3	Basidiomycotina – Puccinia, Ustilago, and Agaricus Karaul	F6+	XI, XII

4	Deuteromycotina -Colletotrichum, Alternaria	5	XII
	UNIT -V		
1	Plant diseases and general account of lichens	4	XIII
2	Special study about green ear disease	4	XIII, XIV
3	White rust disease of wheat	2	XIV
4	Smut disease	2	XIV
5	Citrus canker	1	XV
6	Tobacco mosaic disease	1	XV
7	Little leaf of Brinjal disease	1	XV
8	Rust in wheat	2	XV

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part I

Subject/Paper- Botany paper - II

Diversity of microbes & Cryptogams (Bryophyta, Pteridophyta and Paleobotany)

S. No.	Topic	No. of Lecture	Weeks
	UNIT-1	_	
	Bryophyta -		
1	General characteristics, classification of Bryophyta	4	I
2	Economic importance and alternation of generation	3	1, 11
	UNIT- II		
1	Structure, reproduction, and economic importance of Hepaticopsida – Riccia, Marchantia, and Porella	13	II, III, IV
2	Anthocerotopsida – Anthoccros	4	IV
3	Bryopsida – Sphagnum, Polytricum	6	v
	UNIT-III		
1	Pteridophyta- the first vascular land plant	2	VI
2	types of steles	4	VI
3	important characteristics of Psilopsida	2	VII
4	Lycopsida	2	VII
5	Sphenopsida	3	VII, VIII
6	Pteropsida	3	VIII
7	Classification of Pteridophyta	2	VIII
	UNIT- IV		
1	Structure and reproduction in lycopodium	3	IX
2	Selaginella	3	IX
3	Equisetum A	3	x
4	Adjantum Memorial PG Collega	3624	x
5	Marsilea	PRINCHAL	XI
	UNIT -IV	Karp -	4 <i>84</i>

1	Fossilization	1	XI
2	Types of fossils	3	XI, XII
3	Techniques of fossil study	2	XII
4	Geological time scale	2	XII
5	General characters of Rhynia	2	XII, XIII
6	Lapidodendron	2	XIII
7	Calamites	2	XIII
8	Cladoxylon in brief	2	XIII, XIV

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part I Subject/Paper- Botany paper – III (Cell biology, genetics, and plant breeding)

S. No.	Торіс	No. of Lecture	Weeks
	UNIT – I		
	The cell envelopes-		
1	Plasma membrane – bilayer lipid structure	7	1
2	Functions of the cell wall	5	П
3	Ultrastructure of prokaryotic and eukaryotic cells	3	Ш
4	Structure and functions of other organelles – Golgi bodies, E.R., Peroxisomes, vacuoles	8	III, IV
5	Structures and functions of the nucleus- ultrastructure, nuclear membrane, nucleolus	7	IV, V
	UNIT-II		
1	Chromosome organization-	1	VI
2	Morphology, centrosome, telomere	3	VI
3	Chromosome alterations- deletion, duplication, translocation, inversion	3	VI, VII
4	Variations in chromosome number - aneuploidy, polyploidy	4	VII
5	Sex chromosome	2	VII, VII
6	DNA The genetic material - DNA structure	4	VIII
7	Replication of DNA	2	VIII, IX
8	Protein interactions	3	IX
9	The nucleosome model	4	IX, X
10	Genetic code	2	Ŋ
11	Satellite DNA Voena Memorial PG College	2 mart	X
12	Repetitive DNA	RINCIPAL	XI
13	Cell division - mitosis and meiosis	Aegonal PG	XI, XII

1	Genetic inheritance-	Ĩ.	
2	Mendelian law of segregation and independent assortment, linkage analysis	6	XII, XIII
3	Allelic and nonallelic Interaction	4	XIII
4	Gene expression- the structure of a gene	3	XIII, XIV
5	Transfer of genetic information	4	XIV
6	Transcription	2	XV
7	Translation	4	XV
8	Protein synthesis – ribosomes	4	XVI
9	RNA	4	XVI
10	Regulation of gene expression in prokaryotes	6	XVII, XVIII
11	Lac operon	3	XVIII
	UNIT -IV		
1	Genetic variations -	3	XVIII, XIX
2	Mutations	4	XIX
3	Spontaneous and induced mutation	4	XIX
4	Extranuclear genome -	1	XX
5	Presence and functions of mitochondrial DNA and plastid DNA	5	XX, XXI
6	Plasmids	4	XXI, XXII
	UNIT- V		
_	Plant breeding-		
1	Methods of Plant breeding	10	XXII, XXIII
2	Selection (mass, Pureline, and clonal)	6	XXIII, XXIV
3	Introduction and acclimatization	3	XXIV, XXV
4	Hybridization	3	XXV
5	Hybrid Vigour	2	XXV, XXVI
6	Inbreeding depression	4	XXVI
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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part I Subject/Paper- Botany Practical

S. No.	Торіс	No. of Lecture	Weeks
1	Microscopic preparations and study of the following algal material: Nostoc, Oscillatoria, Chlamydomonas, Volvox, Coleochaete, Oedogonium, Vaucheria, Chara, Ectocarpus, Sargassum, and Polysiphonia	24	I, II, III, IV
2	Staining of different types of bacteria	6	V
3	Study of some locally available plant diseases caused by Viruses, Mycoplasma, Bacteria, and Fungi in field/Laboratory	6	VI
4	TMV, Little leaf of Brinjal, Citrus canker, green ear disease in Bajra	6	VII
5	Study of external morphology and microscopic preparations of the following Bryophytes: Riccia, Marchantia, Anthoceros, Sphagnum, and Polytrichum.	18	VIII, IX, X
6	Microscopic examination of fossil slides, specimen/ Photograph- Rhynia, Lapidodendron, Calamites, and Cladoxylon.	6	XI
7	Microscopic temporary, double stained preparations and study of stem/ cone/ sporocarp of Selaginella, Equisetum, and Marsilea.	12	XII, XIII

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class- B.Sc. B.Ed./B.Sc.-Part II Subject/Paper- Botany paper – 1

(Diversity and systematics of seed plants- Gymnosperms)

S. No.	Topic	No. of Lecture	Weeks
	UNIT – I		
1	Characteristics of seed plants	3	I
2	Evolution of the seed habit	3	I
3	Seed plants with fruits (angiosperms)	3	П
4	Without fruits (gymnosperms)	3	П
5	Fossil seed plants	3	111
6	Living seed plants	3	Ш
	UNIT –II		1
1	General features of gymnosperms	3	IV
2	Classification of gymnosperms	3	IV
3	Evolution of gymnosperms	3	V
4	Diversity of gymnosperms	3	V
	UNIT -III		
1	Fossil gymnosperms	9	VI, VII
2	Comparative account and silent features of Cycadofilicales	3	VII
3	Cordaitales	2	VIII
4	Bennettitales	2	VIII
	UNIT – IV		
1	Morphology of vegetative and reproductive parts	4	VIII, IX
2	Anatomy of root, stem, and leaf	1	IX
3	Reproduction and lifecycle of Cycas	2	IX
4	Pinus PO College	4	IX, X
5	Ephédra PRINCIPAL	4	X, XI
	UNIT -V Veena Memorial PG Cr Karauli (Raj. 1		

1	Morphology of vegetative and reproductive parts	2	XI
2	Anatomy of root, stem, and leaf	3	XI
3	Reproduction and lifecycle of ginkgo	2	XII
4	Taxus	3	XII
5	Gnetum	3	XIII

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part II Subject/Paper- Botany paper– II (Diversity and systematics of seed plants- Angiosperms)

S. Topic No. of Weeks Lecture No. UNIT-I 1 Origin of angiosperms 3 Ĭ. 2 Evolution of angiosperms 3 1 3 Some examples of primitive angiosperms 4 П 4 Some examples of primitive - are Ranales (8 families) 8 II. III UNIT-II 1 Angiosperm taxonomy - brief history 3 IV Angiosperms taxonomy - aims and fundamental components 2 3 IV 3 Alpha taxonomy V 2 4 Omega taxonomy 2 V 5 Keys V 2 Taxonomic literature 6 6 VI 7 Botanical nomenclature 6 VII 8 Principles and rules 2 VIII 9 Taxonomic and rules 2 VIII 10 Taxonomic ranks 2 VIII 11 Type concept 2 IX 12 Principle of priority 2 IX UNIT-III 1 Classification of angiosperms 2 IX Salient features of the systems proposed by Bentham and Hooker 200 3 X Veenn Salient features of the system proposed by Engler and Prantland 3 3 X Major contributions of cytology 4 3 XI PRINC IPAL Veone Memonal PG Co Major contributions to phytochemistry 5 3 XI

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6	Major contributions of Taximatrics to taxonomy	3	XII
	UNIT -IV		
1	Diversity of flowering plants as illustrated by members of the families Ranunculaceae	3	XII
2	Diversity of flowering plants as illustrated by members of the families Brassicaceae	2	XIII
3	Diversity of flowering plants as illustrated by members of the families Papaveraceae	2	XIII
4	Diversity of flowering plants as illustrated by members of the families Capparidaceae	2	XIII
5	Diversity of flowering plants as illustrated by members of the families Malvaceae	2	XIV
6	Diversity of flowering plants as illustrated by members of the families Rutaceae	2	XIV
7	Diversity of flowering plants as illustrated by members of the families Fabaceae	2	XIV
8	Diversity of flowering plants as illustrated by members of the families Apiaceae	2	XV
	UNIT – V		
	Salient features of some families-		-
1	Asteraceae	2	XV
2	Acanthaceae	2	XV
3	Apocynaceae	2	XVI
4	Asclepediaceae	2	XVI
5	Solanaceae	4	XVI, XVII
6	Lamiaceae	2	XVII
7	Amaranthaceae	2	XVII
8	Euphorbiaceae	2	XVIII
9	Lilliaceae	2	XVIII
10	Poaceae	4	XVIII, XIX

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class– B.Sc./ B.Sc. B.Ed.-Part II Subject/Paper- Botany paper– III

(Structure development and reproduction of flowering plants)

S. No.	Topic	No. of Lecture	Weeks
	UNIT – I		
1	The basic body plan of flowering plant	3	1
2	Modular type of growth	3	1
3	Diversity in plant form in annuals, biennials, and perennials	3	11
4	Convergence and evolution of tree habit in gymnosperms	3	Ш
5	Monocotyledons and dicotyledons	3	III
6	Trees- largest and longest	3	111
7	Lived organisms	3	IV
	UNIT -II		
1	The shoot system – the shoot apical meristem (SAM) and its histological organization	6	IV, V
2	Vascularization of the primary shoot in monocotyledons and dicotyledons	6	V, VI
3	Formation of internodes	3	VI
4	Branching pattern	4	VII
5	Cambium and its functions	4	VII, VIII
6	Formation of secondary xylem	4	VIII
7	A general account of wood structure about conduction of water and minerals	6	IX
8	Characteristics of growth rings	4	X
9	Sapwood and heartwood	6	X, XI
10 _C	Role of the wood skeleton	2	XI
11	Secondary phloem	4	XII
12	Structure, function relationships- periderm	8	XII, XIII
	UNIT -III Veena Memonal PG Karauli (Raj)	COM	

1	Leaf - origin, development, and arrangement	6	XIV
2	Diversity in size and shape	2	XV
3	The internal structure of photosynthesis and water loss	4	XV
4	Adaptation to water stress	3	XVI
5	Senescence	3	XVI
6	Abscission	2	XVII
7	The root system - the root apical meristem (RAM)	4	XVII
8	Differentiation of primary and secondary tissues and their roles	6	XVIII
9	Structural modification for storage	3	XIX
10	Respiration	6	XIX
11	Reproduction and interaction with microbes	3	XX
	UNIT -IV		
1	Flower - a modified shoot	6	XXI
2	Flower - structure	6	XXII
3	Development and variety of flower	2	XXIII
4	Functions of flower	2	XXIII
5	Structure of anther and pistil	2	XXIII
6	The male gametophyte	6	XXIV
7	The female gametophyte	6	XXV
8	Types of pollination attraction and rewards for pollinators	2	XXVI
9	Pollen-pistil interaction	2	XXVI
10	Self-incompatibility, double fertilization	2	XXVI
11	Formation of seed-endosperm	6	XXVII
12	Formation of embryo	6	XXVIII
13	Fruit development and maturation	4	XXIX
	UNIT-V		
1	Significance of seed-	2	XXIX
2	Suspended animation	2	XXX
3	Ecological adaptation	4	XXX
4	Dispersal strategies	2	XXXI
5	Vegetative reproduction ator(IOAC)	2 (10	XXXI
6	Veena Memorial PCI Cotton	DOINT	DAI
7	Grafting Ver	Karai I	XXXII
8	Economic aspects		
	Leonomic aspects	3	XXXIII

VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class– B.Sc. B.Ed./B.Sc.-Part II Subject/Paper- Botany Practical

S. No.	Topic	No. of Lecture	Weeks
	Gymnosperms		
	Cycas.		
1	Habit, the armor of leaf bases on the stem (if the specimen is not available show a photograph), very young leaf (circinate venation) and old foliage leaves, scale leaf, bulbils, male cone (specimen); microsporophyll, megasporophyll, mature seed.	3	I
2	Study through permanent slides - normal root (T.S.), stem (T.S.) (if sections are not available show photographs), ovule (L.S.).	3	I
3	Study through hand sections or dissections - coralloid root (T.S.), rachis (T.S.), leaflet (T.S.), microsporophyll (T.S.), pollen grains (W.M.)	6	Ш
	Pinus		
1	Habit, long and dwarf shoot showing cataphylls and scale leaves, T.S. wood showing growth rings, male cone, female cones, winged seeds.	6	111
2	Study through permanent slides - root (T.S.), female cone (L.S.), ovule (L.S.), embryo (W.M.) showing poly cotyledonous condition.	3	IV
3	Study through hand sections or dissections - young stem (T.S.), old stem (wood) (T.L.S. and R.L.S.), needle (T.S.), male cone (L.S.), male cone (T.S.), pollen grains (W.M.)	3	IV
	Ephedra		
1	Habit and structure of whole male and female cones.	2	V
2	Permanent slides - female cone (L.S.).	2	V
3	Hand sections/dissections - node (T.S.), internode (T.S.), male cone (T.S. and L.S.), pollen grains.	2 New	V
#4.30	Ginkgo, Taxus & Gnetum - Study of morphology and anatomy of vegetative and reproductive parts.	PGCer	VI
	Angiosperms Karauk (F	a second prove the second s	

1. Ranunculaceae: Ranunculus, Delphinium	1	VII
2. Brassicaceae: Brassica, Iberis	1	VII
Papaveraceae: Argemone / Papaver.	1	VII
3. Malvaceae: Hibiscus, Abutilon	1	VII
 Rutaceae: Murraya, Citrus 	2	VII
5. Fabaccae: Faboideae: Lathyrus, Cajanus, Melilotus, Trigonella	6	VIII
Caesalpinioideae: Cassia, Caesalpinia		
Mimosoideae: Acacia, Prosopis, Mimosa		
6. Apiaceae: Coriandrum, Foeniculum, Anethum	2	IX
7. Asteraceae: Helianthus, Ageratum, Sonchus, Tridax	1	IX
8. Acanthaceae: Adhatoda, Peristrophe	1	IX
9. Apocynaceae: Vinca, Thevetia, Nerium	1	IX
10. Asclepiadaceae: Calotropis	1	IX
11. Solanaceae: Solanum, Withania, Datura	3	X
12. Euphorbiaceae: Euphorbia, Phyllanthus, Ricinus	2	X
13. Lamiaceae: Ocimum, Salvia	1	x
14. Amaranthaceae: Amaranthus, Achyranthus	1	XI
15. Liliaceae: Asphodelus, Asparagus	1	XI
16. Poaceae: Avena, Triticum, Hordeum.	2	XI
(B)		
 Study any commonly occurring dicotyledonous plant (for example Solanum nigrum or Kalanchoe) to understand the body plan and modular type of growth. 	2	XI
2. Life forms exhibited by flowering plants (by a visit to a forest or a garden).	3	XII
 L.S. shoot tip to study the cytohistological zonation and origin of leaf primordia. 	-	
4. Monopodial and sympodial types of branching in stems (especially rhizomes)	3	XII vo
5. Anatomy of primary and secondary growth in monocots and dicots using hand sections (or prepared slides). Structure of secondary phloem and xylem. Growth rings in the wood.	6 OPT PRINCI Memoria Karatul	XIII PAL PG College

7. Anatomy of the root. Primary and secondary structure.	2	XIV
Examination of a wide range of flowers available in the locality and methods of their pollination.	2	XIV
 Structure of anther, microsporogenesis (using slides), and sollen grains (using whole mounts). Pollen viability using in vitro pollen germination. 	4	XV
 Structure of ovule and embryo sac development (using serial sections) 		
 Nuclear and cellular endosperm. Embryo development in nonocots and dicots (using slides/dissections) 	2	XV
12. Simple experiments to show vegetative, propagation. (leaf cuttings in Bryophyllum, Sansevieria, Begonia; stem cuttings in cose, salix, money plant, sugarcane, and Bougainvillea).	6	XVI
13. Germination of non-dormant and dormant seeds.	3	XVI
14. Viability of seeds.	3	XVI

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part III Subject/Paper- Botany paper – I (Plant physiology and biochemistry)

S. No.	Topic	No. of Lecture	Weeks
	UNIT – I		
1	Plant water relations-	3	1
2	Importance of water to plant life	1	1
3	Physical properties of water	2	1
4	Diffusion	1	II
5	Osmosis	3	11
6	Absorption	2	11
7	Transport of water and transpiration	2	Ш
8	Mineral nutrition – essential macro and micro elements and their role	4	ш
9	Mineral uptake	2	IV
10	Deficiency and toxicity symptoms	4	IV
11	Transport of organic substances	2	V
12	Mechanism of phloem transport	4	V
13	Source sink relationship	3	VI
14	Factors affecting translocation	1	VI
	UNIT –II		
1	Photosynthesis - significance, historical aspects	2	VI
2	Photosynthetic pigments	6	VII
3	Action spectra and enhancement effects	4	VIII
4	Concept of two photosystem	2	Улп
5.m	Z-scheme liege	3	IX
6	Photophosphorylation	PRINCI ena Memorial	PG Collarda
7	C-3 and C-4 pathway	6Karn //	X

8	CAM plants	3	XI
9	Photorespiration	3	XI
	UNIT –III		
1	Respiration - ATP is the biological energy currency	3	XII
2	Aerobic and anaerobic respiration	3	XII
3	Glycolysis	3	XIII
4	Kreb's cycle	3	XII
5	Electron transport system mechanism	4	XIV
5	Chemi-osmatic theory	2	XIV
t	Redox potential	2	XV
{	Oxidative phosphorylation	2	XV
)	Pentose phosphate pathway	2	XV
0	Basics of enzymology	1	XVI
1	Discovery and nomenclature	2	XVI
2	Characteristics of enzymes	2	XVI
3	Concept of enzymes	1	XVI
4	Apo enzyme and co-factors	4	XVII
5	Regulation of enzyme activity	4	XVII, XVIII
6	Mechanism of action	4	XVIII
-	UNIT-IV		
	Nitrogen and lipid metabolism	6	XIX
N.	Biology of nitrogen fixation	4	XX
ń	Importance of nitrate reductase and its regulation	2	XX
2	Ammonium assimilation	3	XXI
	Structure and function of lipid	3	XXI
	Fatty acid biosynthesis	6	XXII
	Alpha and beta-oxidation	6	XXIII
0	Saturated and unsaturated fatty acids	6	XXIV
	Storage and mobilization of fatty acids	3	XXV
(UNIT -V		
N.C	Growth and development -	3	XXV
ien	Definitions, phases of growth, and development	2	XXVI
	Kinetics of growth Veena Memoral PG 0	ale	XXVI
	Seed dormancy Karauli (Raj.)	2	XXVI

VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class – B.Sc./ B.Sc. B.Ed.-Part III Subject/Paper- Botany paper – II (Ecology and phytogeography)

S. No.	Topic	No. of Lecture	Weeks
	UNIT – I		-
1	Plant and environment -	l	I
2	Atmosphere (gaseous composition)	5	I
3	Water (properties of the water cycle)	2	П
4	Light (global radiation photosynthetically active radiation)	2	П
5	Temperature	2	11
6	Soil (Development, Soil profiles, Physicochemical properties)	3	III
7	Biota	3	Ш
	UNIT -II		
1	Morphological, anatomical, and physiological responses of plants to water-hydrophytes	3	IV
2	Morphological, anatomical, and physiological responses of plants to water - Xerophytes	3	IV
3	Morphological, anatomical, and physiological responses of plants to water-halophytes	3	v
4	Temperature	3	V
5	Light	2	VI
6	Heliophytes and Sciophytes	2	V1
7	Salinity	2	VI
1	UNIT -III		
1	Community ecology -	3	VII
	Community characteristics, (analytical and synthetic)	3	VII
a Me 3	Ecological succession	6	VIII
4	(Hydroasere, lithosere, Psammosere) PRINCIPAL	6.	IX
5	Concept of climax Karauli (Raj)	3	X

	UNIT -IV	1	
1	Ecosystem – structure	3	X
2	Abiotic components	2	XI
3	Biotic components	2	XI
4	Food chain	2	XI
5	Food web	2	XII
6	Ecological pyramids	4	XII
7	Energy flow	4	XIII
8	Biogeochemical cycles – carbon cycle	2	XIII
9	Water cycle	2	XIV
10	Nitrogen cycle	2	XIV
11	Phosphorus cycle	2	XIV
	UNIT -V		
1	Bio geographical regions of India	6	XV
2	Vegetation types in India	6	XVI
3	Forest and grassland with particular reference to Rajasthan	6	XVII
4	Environmental pollutions-	-	
5	Air pollution	2	XVIII
6	Water pollution	2	XVIII
7	Soil pollution	2	XVIII
8	WWF	1	XIX
9	Chipko movement	1	XIX
10	Greenhouse effect	2	XIX
11	Introduction to climate change	2	XIX
12	Carbon sequestration	3	XX
13	Energy and environment	3	XX
	Clean/development mechanism (CDM)		

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class– B.Sc./ B.Sc. B.Ed.-Part III Subject/Paper- Botany paper– III (Biotechnology and utilization of plants)

S. No.	Topic	No. of Lecture	Weeks
	UNIT – I		
1	Genetic engineering	2	Ι
2	Tools and techniques of recombinant DNA technology	4	1
3	DNA cloning vectors	6	П
4	Genomic and cDNA library	6	Ш
5	Transposable element	6	IV
6	Technics of gene mapping	3	V
7	Chromosome walking	3	V
8	Genetic transformation	4	VI
9	Production of bioactive molecules	2	VI
10	The basic concept of metabolic engineering	4	VII
11	Improvement of biosynthesis	2	VII
12	Accumulation of bioactive	2	VIII
13	Immobilization	2	VIII
14	Elicitation	2	VIII
15	Transgenic plants	6	IX
	UNIT –II		
1	Biotechnology - functional definition	2	х
2	Basic aspects of plant tissue culture	4	х
3Cor	Cellular Totipotancy	2	XI
40 1	Differentiation and morphogenesis, the biology of agrobacterium	040	XI, XII
5	Vectors for gene delivery	PAI	XIII
6	Marker genes Veane Memorial	A LOW DOWN	XIV

	Salient achievements in crop biotechnology	8	XIV, XV
	UNIT -III		
1	Food plants - Rice, Wheat, Maize, Bajra, Potato, Sugarcane(History, origin, and distribution), morphology, climate, soil, cultivation, preparation, improved varieties, uses, and crop protection	12	XVI, XVI
2	Vegetable oils – ground nut, mustard, coconut	8	XVIII, XIX
3	Volatile oils	2	XIX
4	Fatty acid	2	XIX
5	Classification of vegetable oils (history, origin, distribution)Extraction of vegetable oils, morphology of plants, cultivation, varieties	6	XX
	UNIT -IV		
1	Fibers – cotton and jute	6	XXI
2	Classification of fibers (history and origin, important fibers and their source distribution, types, climate, soil, cultivation processing, characters, improved verities)	6	XXII
3	A general account of sources of firewood, timber, and bamboo, structure and characteristics of wood	6	XXII
4	An important source of timber wood	3	XXI
5	Characters, plantation of firewood	3	XXI
6	Botanical characteristics of bamboo, climate, and soil, use, diseases, and insect pests	4	XXII
7	Rubber and hydrocarbon-yielding plants - calotropis, euphorbia	2	XXII
8	History of rubber	1	XXIII
9	Properties of rubber	2	XXIII
10	Types of rubber	1	XXIII
11	Cultivation of plant, extraction, and processing, uses	2	XXIII
	UNIT	_	
l	Spices – general account	1	XXIV
2	Clove	1	XXIV
3	Black paper	1	XXIV
Ŧ	Palehini	1	VIXXIV

 4
 Ipalebini
 1
 XXIV

 5
 Cardamon
 1
 XXIV

 6
 Medicinal plants – general account
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 XXIV

 7
 Withania
 Karage PR
 XXV

8	Rauwolfia	1	XXV
9	Cinchona	1	XXV
10	Azadiracta	1	XXV
11	Aloe	- 1	XXV
12	Ephedra	1	XXV
13	Taxus	1	XXVI
14	Chlorophytum	1	XXVI
15	Beverages - tea and coffee	2	XXVI

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VEENA MEMORIAL PG COLLEGE KARAULI, RAJASTHAN Lecture plan Class– B.Sc./ B.Sc. B.Ed.-Part III Subject/Paper- Botany Practical

S. No.	Topic	No. of Lecture	Weeks
	Physiology:		
	1. To study the permeability of plasma membranes using different concentrations of organic solvents.	2	1
	To study the effect of temperature on the permeability of the plasma membrane.	2	Ι
	3. To study the effect of toxic substances on the permeability of the plasma membrane.	2	1
	4. To demonstrate the phenomenon of osmosis by the use of a potato osmometer.	2	11
	 To study the phenomenon of plasmolysis and deplasmolysis using Tradescantia / Rhoeo discolor leaves and different concentrations of sugar. 	4	П
	6. To study the protoplasmic streaming (In Hydrilla / vallisnaria)	2	111
	7. To demonstrate the rate of transpiration by use of a photometer (Ganong's/Farmers)	2	Ш
	8. To study the relative rate of transpiration from the leaf surfaces of the different plants using cobalt chloride paper.	2	Ш
	To demonstrate that oxygen is evolved during the photosynthesis by inverted funnel method.	2	IV
	10. To demonstrate that light is necessary for photosynthesis.	2	IV
	 To demonstrate the effect of different wavelengths of light during photosynthesis. 	2	IV
	 To demonstrate that carbon dioxide, light, water, and chlorophyll are essential for photosynthesis by Moll's experiment. 	2	V
	 To compare the rate of photosynthesis under different conditions by using Wilmott's bubbler. 	2	-
	14. comparison of the rate of respiration (R.Q.) of various plant parts or substrates with the help of Ganong's respirometer.	2	V
-	15. Separation of chlorophyll pigments by the paper chromatography	2	V
	Biochemistry:		
	 To study the activity of catalase, peroxidase dehydrogenase enzymes in plant tissues. 	-	-
	 Phytochemical test for starch, sugars, protein, fats, tannins, Anthocyanin. 	6	VI
	Biotechnology :		
/	1-Introduction of the instruments/techniques of laminar airflow/ sterile bench and autoclave	2	VII
1	2/Preparation of M.S and P.D.A. culture media	3	VII
ons	Demonstration of inoculation techniques, aseptic transfer of explants, and microbial transfer technique	1 Cat	VII X
111		RINCIPAL	VIII
		morial PG (Will the
	1. To determine the minimum size of quadrat for phytosociological	renter Ba	VIII

11

 To determine the frequency of the herbaceous species by quadrat method. 	2	VIII
 To determine the density and abundance of the herbaceous flora by the guadrat method. 	2	IX
 4. Soil analysis/Field test (a) Soil Texture (b) Soil moisture 	2	IX
5. To determine the water-holding capacity of the soil of grassland or woodland	2	IX
6. To determine the pH of given soil samples.	3	X
 To demonstrate the presence of carbonate and chloride in different water samples/soil samples. 	3	Х
Ecological adaptations:		
 Morphological & Anatomical adaptations in some hydrophytes & xerophytes: (Specimens/slides/section cutting) Hydrilla, Typha, Eichhornia, opuntia, Euphorbia, Capparis, Casurin, Nerium, Calotropis 	6	XI
9. Ecological instruments and their working	1	XII
Economic Botany:		
 Microchemical tests for – Lignin, Cellulose, Cutin, Suberin, Starch, Sugar, Protein, and Oil in plant tissues. 	5	XII
 Microscopic examination of starch grains of wheat, maize Rice, and Potato. 	2	XIII
Utilization of plants		
(a) Food plants - Wheat, Maize, Rice, Potato, Sugarcane	2	XIII
(b) Fibres - Cotton, Jute	2	XIII
(c) Vegetable oils – Ground nut, mustard, and coconut	2	XIV
 d) A general account of the firewood, timber-yielding plants, and Bamboo 	2	XIV
(e) Spices and condiments - Clove, Black pepper, Cinnamon, Cardamom	2	XIV
(f) Medicinal Plants – Rauwollia, Withania, Cinchona, Papaver, Ocimum, Datura, Ephedra, Taxus, Aloe, Azadirachta	6	XV
(g) Beverages - Tea, Coffee	1	XVI
(h) Rubber – Ficus elastica, Hevea	1	XVI

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VEENA MEMORIAL P.G. COLLEGE KARAULI LECTUR PLAN - ZOOLOGY

PAPER-1

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CLASS - B.Sc. and B.Sc. B. Ed. IST YEAR

1	Topic Animal Diversity part –I (Protozoa UNIT-I	No. of lecture	Weel
2	Description of the principal of taxonomy Concept of five kined		weel
3		3	
4	Level of structural organization	2	1
	Dasis of classification of animal	2	1
5	0111-11	5	1,11
	Classification of invertebrates animals		П
6	endormeation of phylum protozer and the	3	
7	Classification of phylum protozoa on the basis of locomotory organ. General characteristics and classification of porifera	3	111
	UNIT-III		III
8	General characteristics and classification of coelenterate	2	IV
)	Coral reef		
0	General characteristics	23	IV
1	General characteristics and classification of platy helminthes		IV-V
2	General characteristics and classification of platy helminthes General characteristics and classification of nematodes	3	V
3	Internal and extangel and elassification of Annelida	3	V,VI
1	Internal and external structure of Sycon Describe the different element of Sycon Turners	2	VI
	The unterent element of Sycon	3	VI
the second se	Types and impotence of canal system	5	VII
		3	
	stenophore and its provincit	3	VII,VIII
	C1111-1V	2	VIII
	Study of the structure of fasciola		VIII,IX
	are cycle of Fastiola L	3	
	reacting the christian - rea	4	IX
1	Describe the different larval stage of Fasciola	3	IX,X
- +	letamorshi UNIT-V	5	X
	terminorphilsm and coolem t		X,XI
	Souther Description to 1	3	
		2	XI,XII
D	escribe the defferent system in leach	3	XII
	generit in reach	6	ХП
	0	0	XIII

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VEENA MEMORIAL P.G. COLLEGE KARAULI LECTUR PLAN – ZOOLOGY B.Sc. and B.Sc. B. Ed. Pt -I

PAPER- II

Genetics and Biotechnology

S.No.	Topic	No. of lecture	Week
	Unit-I		
1	Genetics definition and medals law	1	I
2	Law of dominance and incomplete dominance	2	I
3	Study of Mendelian in the present situation	3	I
4	Genetic variation	2	11
	UNIT-II		
7	Genetic disorders		
8	Genetic mutation	2	Ш
9	Crossing over and linkage	3	III, IV
	UNIT-III		
10	Sex determination in human	2	IV
11	Colorblindness and hemophilia	2	IV
12	Study of genetic variance	3	V
13	Effects of blood group on genetics	4	V,VI
14	Study of molecular genetics	3	VI
	UNIT-IV		
15	Describe the bacterial genetics	4	VI,VII
16	Lyrics and glycogenic cycle	3	VII
17	Gene cloning	2	VII,VIII
18	Methods of biotechnology	3	VIII
	UNIT-V		
19	Antibodies and antibiotics	2	VIII
20	Significanse of microorganism in industrial wastes	3	IX
21	Decomposition of biotic	3	IX
22	Study of oily pollutants	3	X
23	Use of microorganism in medicine	3	X

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VEENA MEMORIAL P.G. COLLEGE KARAULI LECTUR PLAN - ZOOLOGY

B.Sc. and B.Sc. B. Ed. Pt -I

Cell Biology, Biochemistry and Microscopy

S.No.	Topic	No. of lecture	WEEK
	UNIT-I		
1	Cell invention theory	3	I
2	Golden age of cytology and types of cells	2	I
3	Prokaryotic and eukaryotic cells	3	1,11
4	Describe the animal cells	3	п
5	History and physical property of protoplasm	2	п,ш
6	Colloidal, physical and chemical properties of protoplasm	3	ш
7	Illustrate description of cell organelles	10	III,IV,V,V
	UNIT-II		
8	Types of DNA and RNA	2	VI
9	Chemical study of nucleic acid	2	VI
10	Study of molecular model	2	VII
11	Importance of nucleic acid in genetics	3	VII
12	Mitosis and meiosis cell division	4	VI
13	Importance of cell cycle and centiole	3	VIII
14	Significance of crossing over control	3	VIII
	UNIT-III		
15	Synthesis of nucleic acid	2	IX
16	Study of DNA and RNA structure	3	IX
17	Bio-synthesis of deoxyribosome	2	IX,X
18	Mechanism and regulation of protein synthesis	4	X
19	Role of RNA in protein synthesis	3	X,XI
	UNIT-IV		1
20	Study of cell chemistry	3	XI
21	Importance and principal of fermentation	4	XI,XII
22	Study of cell metabolism	3	XII
23	Study of metabolic activities	5	XIII
	UNIT-V		
24	Structure and function of microscope	3	XIII
25	Use and principal of compound and electron microscope	4	XIV

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VEENA MEMORIAL P.G. COLLEGE KARAULI LECTUR PLAN - ZOOLOGY

B.Sc. and B.Sc. B. Ed. Pt-II

II (A sthonoda to Protochordata)

APER-	Animal Diversity Part –II (Arthopoda to Protochor Topic	No. of lecture	WEEK
No.	UNIT-I		
	Arthropod		1
1	Classification and general character of phylum arthropods	3	1
3	Ushitat habits and appendix of palaemon	2	
3	Digestive system and respiratory system of palaemon	2	I,II
4	Excretory system and reproductive system of palaemon	4	II
5	Structure and function ofnervous system of palaemon	3	11,111
	Structure of crustacean larva	4	Ш
6		1	IV
7	Apiculture, Lac culture	2	IV
8	Sericulture UNIT-II		
	Mollusca		
	Monusca	2	IV
9	Classification and general character of phylum mollusca	2	IV,V
10	Nature and habitat of pila	1	V
11	Structure of digestive system of pila	3	V
12	Excretory system and reproductive system of pila	2	V,VI
13	Circulatory system and sensory organ of pila	2	V1
14	Rotation in gastropoda	1	VI
15	Pearl culture	1	1
	UNIT-III		
	Echinodermata	2	VI
16	Classification and structure of phylum echinodermata	3	VII
17	External and internal structure of esternasus	2	VII
18	Illustrate description of digestive system		VII
19	Illustrate description of respiratory system	2	VIII
20	Illustrate description of circulatory system	1	VIII
21	Illustrate description of excretory system	3	VIII
22	Describe the male and female reproductive system	1	VIII,IX
23	Illustrate description of nervous system	2	IX
24	Circulatory system and sensory organ of star fish	2	IX
25	Illustrate description of larva	2	IX
26	Regeneration of star fish	1	IA
20	UNIT-IV		v
27	Vertebrate and invertebrate comparison	2	X
28	General character and classification	2	X
29	Habitat and nature of balanoglosus	2	X
30	External character and coelom	3	XI
31	Digestive system of balanoglosus	4	XI,XI
31	Illustrate description of skeletal system	5	XII
34	Enore Collego	PRINCIP	Xe

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33	Illustrate description of respiratory system	2	XIII
34	Study of circulatory system	2	XIII
35	Study of excretory system	2	XIII
36	Study of male and female reproductive system	2	XIV
37	Study of nervous system	2	XIV
38	Sensory organ of balanoglosus	3	XIV,XV
39	Illustrate description of ternaria larva	1	XV
40	Relation between echinodermeta and hemichordate	2	XV
	UNIT-V		
	Eurochordata		
41	General character and classification	1	XV
42	Study of herdmania	2	XV.XV
43	Illustrate description of several system of herdmania	2	XVI
44	Sensory organ of herdmania	2	XVI
	Cephalochordata		
45	Classification of amphioxus	2	XVI
46	Relation between eurochordata and cephalochordata	2	XVII

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VEENA MEMORIAL P.G. COLLEGE KARAULI LECTUR PLAN - ZOOLOGY B.Sc. and B.Sc. B. Ed. Pt-II

Endocrinology and Ethology

PAPEI S.No.	R- II Endocrinology and Etholog Topic	No. of lecture	WEEK
	UNIT-I		
1	Description of the external and internal glands	7	І,П
2	Chemical nature of hormones	3	п
3	Structure of major endocrine glands	8	п'ш
4	Study of sub endocrine glands	7	IV,V
5	Description of endocrine glands in insect	5	V
-	UNIT-II		
6	Regulation of hormones	3	VI
7	Description of external and internal messenger	5	VI,VII
8	Study of secondary messenger	3	VII
9	Cyclic AMPO, PIP2, IP2	4	VII,VIII
10	Egg protein, protein kinase	3	VIII
11	Cell signaling and signal promotion	4	IX
-	UNIT-III		
12	Molecular mechanism of insulin	3	IX,X
13	Function and structure of testis and ovary	7	X,XI
14	Effect of hormones in embryonic stage	3	XI
15	Study of raju cycle and mid cycle	2	XI
16	Hormone control on pregnancy	3	XII
17	Hormone effects on child birth and lactation	5	XII,XIII
18	Different type of contraceptive	3	ХШ
10	UNIT-IV		
19	Study of animals behavior	5	XIII,XIV
20	MRI and CT scan	3	XIV,XV
21	Physiological method of behavior	4	XV
22	Neural method of behavior	7	XV,XVI
23	Study of biological clock	3	XVII
24	Adhigam	3	XVII
25	Method of printing, self motivated business	3	XVIII
and the second s	UNIT-V		
26	Struggle of food in honey bees, monkeys	4	XVIII,X V
27	Study of social behavior of oraganism	2	XIV
28	Communication battle and alarm call	3	XIV
29	Sexual behavior in animals	7	XVI,XV I
30	Hormone effects on sexual methods	3	XIX
31	Migration in birds and fishes	3	XIX
32	Orientation in Texix and Kinesis	4	XX
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VEENA MEMORIAL P.G. COLLEGE KARAULI LECTUR PLAN – ZOOLOGY

B.Sc. and B.Sc. B. Ed. Pt-II

Animal Ecology and Biostatistics

S.No.	Topic	No. of lecture	WEEK				
	UNIT-I						
1	Ecology meaning, definition and history	3	1				
2	Concept and field of work of ecology	4	1,11				
3	Basic component of ecosystem	2	П				
4	Biotic and abiotic factor of ecology	2	П				
5	Interracial and interracial relation	7	11,111				
6	Shelfords theory of tolerance	3	IV				
7	Libing concept	2	IV				
_	UNIT-II						
8	Study of community ecology	3	IV				
9	Biocommunities traits, safety and reproduction	3	IV,V				
10	Ecosystem stability	2	V				
11	Productivity types, measurements	2	V				
12	Energy flow and food chain in cecology	3	VI				
13	Ecological pyramids	4	VI,VII				
14	Ecological niche	3	VII				
	UNIT-III						
15	Aquatic ecology	4 VII,V					
16	Marine life and aqauatic habital	3	VIII				
17	Local habitat, forest, desert 4						
18	Groth rate, migration in natural community	5	IX.X				
19	The role of human in the design of natural communities 4						
	UNIT-IV		X,XI				
20	Natural resourses	2	XI				
21	Renewable and non-renewable resources	3	XI				
22	Marine agriculture and aquatic agriculture	3	XII				
23	Management of natural resources	3	XII				
24	Environmenttal pollution	5	XIII				
	UNIT-V						
25	Impact of urbanization	3	XIII,XIV				
26	Features of urbanization	2	XIV				
27	Concept of biological minimization	3	XIV,XV				

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Paper –III

VEENA MEMORIAL P.G. COLLEGE KARAULI

LECTUR PLAN - ZOOLOGY

B.Sc. and B.Sc. B. Ed. Pt-III

Animal Diversity part-III (Vertebrates and Evolution) Paper -I No. of lecture WEEK Topic S.No. UNIT-I It origin and ancestry and variation of texas 3 T. 1 1 General characteristics vand classification of cyclostometa 1 2 I Petromyzon-morphology and amocete larva 1 3 III 4 General character and classification of Pisces 4 2 п General morphology of scoliodon and lobio 5 плп 3 Types of electric organ, tail fin and scales 6 2 Ш Types of electric organ, tail fin and scales 7 UNIT-II General characteristics and classification of amphibian ш 1 8 2 III,IV Pisces culture 9 General characteristics vand classification of raptelia 2 IV 10 IV 2 Illustrate description of scoliodon 11 UNIT-III General characteristics and classification of avis IV,V 3 12 2 V Flight adaption in birds 13 V.VI Study of migration in birds 3 14 VI 1 15 Illustrate description of acheopteryx 2 VI Structure and evaluation of urinary system 16 VLVII 4 Brain and skeleton system 17 3 VII Illustrate description of of eye and car 18 2 VII.VIII Study of parental care in vertebrates 19 UNIT-IV VIII Illustrate description of alimentary canal 1 20 VIII 3 Illustrate description of of respiratory system 21 VIII.IX 4 22 Study of circulatorysystem 3 IX Various evidence in favor of evaluation 23 IX,X 2 Miller eure practical 24

Study of species evaluation 26

25

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UNIT-V

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VEENA MEMORIAL P.G. COLLEGE KARAULI

LECTUR PLAN - ZOOLOGY

B.Sc. and B.Sc. B. Ed. Pt-III

Paper-II

Mammalian Physiology and Immunology

S.No.	Topic	No. of lecture	WEEK			
	UNIT-I		- Hite Sharola			
1	Physiology Of balance diet digestion	5	I			
2	Malnutrition, PEM	2	1,11			
3	Physiology and regulation of respiration	4	П			
4	Structure of respiratory organ	3	II,III			
5	Regulation on respiration	2	III			
	UNIT-II					
6	Physiology of circulation	3	III,IV			
7	Mechanism of circulation	2	IV			
	UNIT-III					
8	Heart disorder ,ECG of circulation	3	IV			
9	Excretory system and types of excretory system	4	V			
10	Study of auxiliary excretory organs	2	V			
11	Structure and function of sweet gland	3	VI			
12	Structure and function of kidney	2	VI			
13	Structure and function of nephron	4	VI.VII			
14	Mechanism of urine formation 3					
15	Dialysis study	2	VIII			
	UNIT-IV					
16	Structure of rekhit and arekhit mussels	3	VIII			
17	Concept of mussels contraction	3	VIII.JX			
18	Tetanus and mussels	2	IX			
19	Illustrate description of neurons	2	IX			
20	Structure of nerve fiber	3	Х			
	UNIT-V					
21	Reflect action	2	Х			
22	Touch, pain, heat and sensory organ	5	X.XI			
23	Structure of human eye	3	XI,XII			
24	Image formation and precipitation visualization	3	XII			

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VEENA MEMORIAL P.G. COLLEGE KARAULI

LECTUR PLAN - ZOOLOGY

B.Sc. and B.Sc. B. Ed. Pt-III

		velopmental Biology No. of lecture	WEEK
S.No.	Topic	No. of fecture	WEEK
	UNIT-1		I
1	History of development biology	3 4	
2	Types of asexual reproduction		I,II II
3	Gemmule formation, budding and metrog		п
4	Structure of male reproductive system of a	abbits 2	n
	UNIT-II		111
5	Structure of female reproductive system of		111
6	Effects of hormones on reproductive syste	-m 4	III,IV
	UNIT-III		EV.
7	Gamete reproduction system	3	IV
8	Fertilization types and example	2	IV
9	Formation of gastrulation	2	V
	UNIT-IV		
10	Embryonic induction	2	v
11	Differentiation origin	2	V
12	Regeneration features and types	3	VI
13	Deformed origin, effecting factor	2	VI
	UNIT-V		
14	Principal of time effects	1	VI
15	Extra rope membrane of chicken	3	VII
16	Korak building types and significance	2	VII
17	Grouth and development in neural bhaban	3	VII
18	Study of decay and old age	2	VIII
19	Development and function of placenta	1	VIII
20	Study of metamorphosis in amphibian	2	VIII
21	Developmental stages in frogs	3	VIII,D
22	Function of sperm and ovum	2	IX
23	Steps and significance of fertilization	5	IX,X
24	Study of different types of egg	4	X,XI

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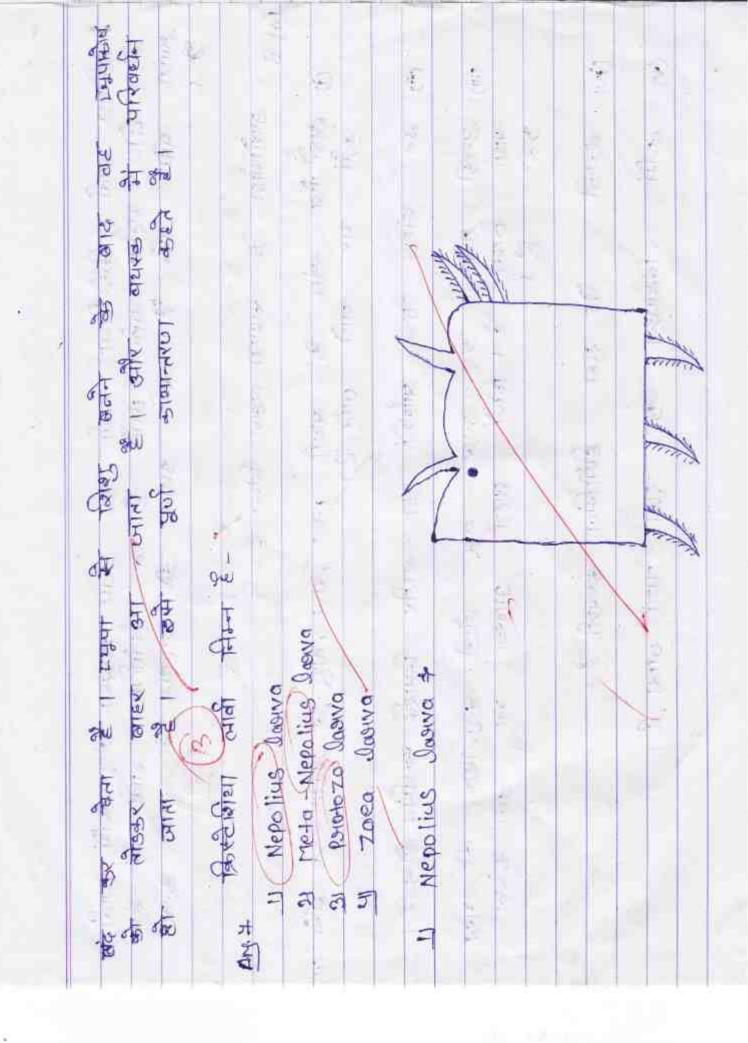
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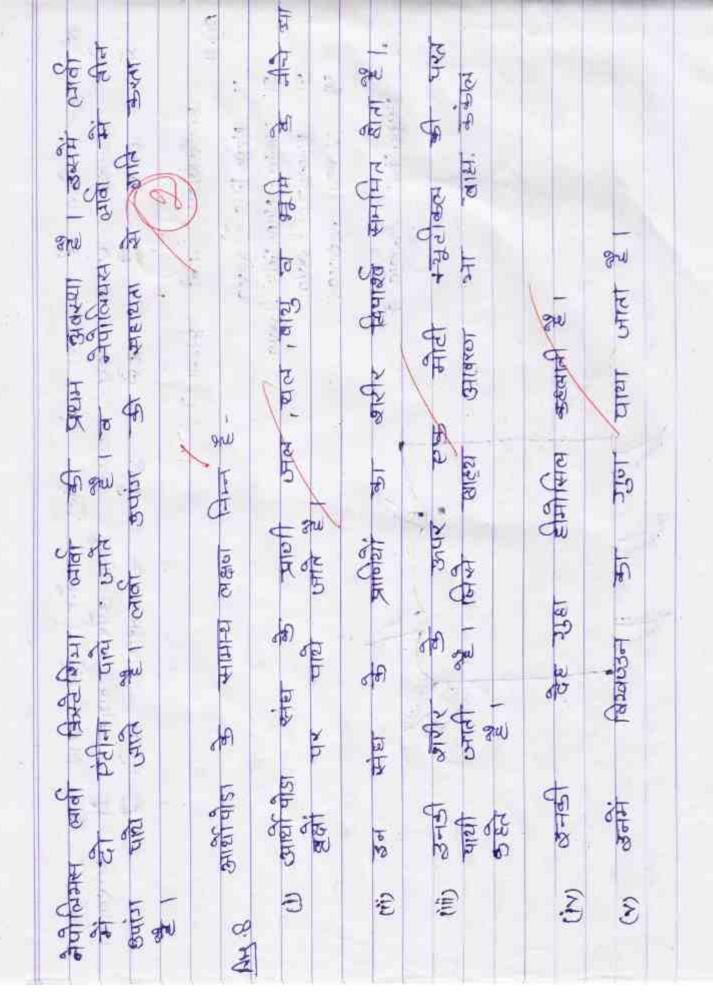
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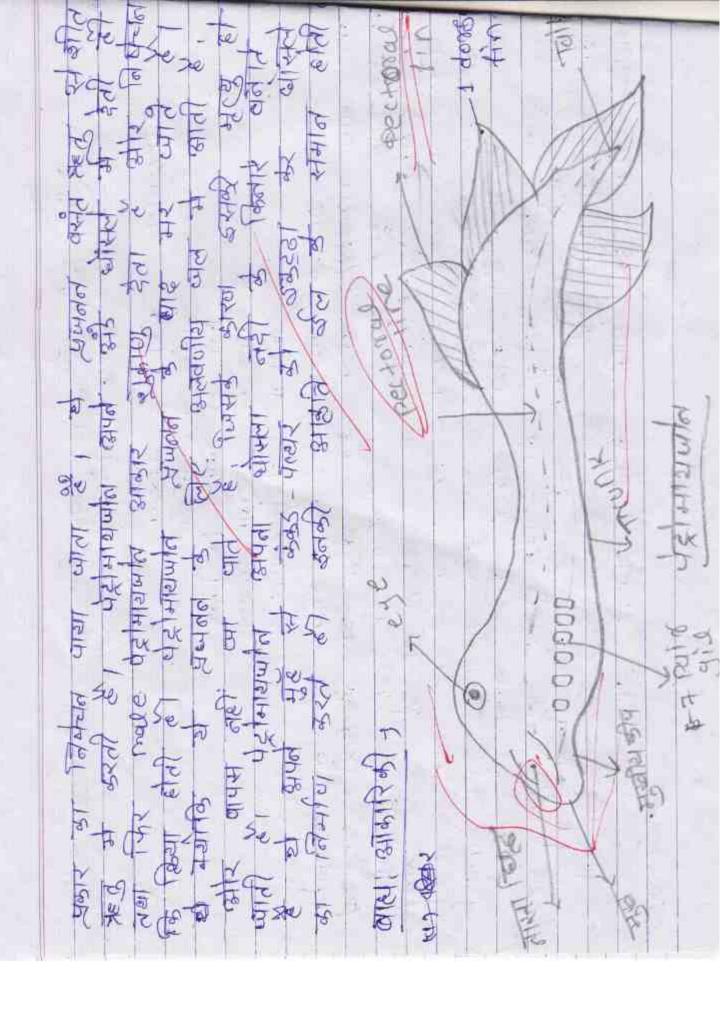
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	(3) - Ary-4. Actual 3 29 Patalac city 1	उटि (1) के लोगतिय या हिलावणीय जल क्षेत्रों में पांची जी है। (11) डलका बाह्य डेकाल उपारिययों का बना होनों है।		, , as- साइम्लीस्टोर्सर) के सामाल्य लेक्या न	तम् य देव गर पुर्ध्व	the relates 1 20-25 - 2012	5) I was galed end & , The sh with the by
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29472 जनमें राज भूषा भ्राहर राज पर पार जाते है जी छि नमें झेरेर की लेग्म 4-16 Pairs मिल पाए पार्ट की की इनमें एक पांडी युन्छ पाए पार्ट की की करने तासा छिड उसलु॰ होते की अनमें रिडोक्सम हदये पाया जाता है-N. खातर को विग्र Eldi R ELAT & 81 22 निर्धमान छास्र, सकार का होता परिवर्द्यन स्टबस स्वहार का अरिस्म मह्यतियो म खनका लाह्य, डेकाल 3 क्षरिंचमध 3 पारिश्ल य अस्या अखियो मे 2e Guides Nel Toleig YH BAT Sat 4Rates AW-8. Sulter m Sel + del H 21 HGH 600 Color 3-) 0 13-> 12> 6 へて 1 80

1) - ही समूद्री जल ने ताझी जाती है। 1 1 2) में समुद्री क अलागति दोर्जी अभी -01 5तम वायु आशय पार जाते १, ऊलका केकाल उपातियम्य होता ४, जनका केकाल दारियम्य होता हो But as ear low all all we as 101. इत्रमे सीधा उपांग अन्तु होत 2) उनमे जासा रिक्ट अनु होते हो तो को कासा रिक्ट उन होते ही 3) उनमे प्लेकोळ्ड आल्क पांशी आतीही 3) उनमे प्लेकांड्ड गोनांडड थे. Historias sired gielt wind the खनमे हाँडे कम विक्रिसित होते - म, ज्हाने होरे झाँछाछ भिजसित Catell & along 4) 33 aby 21272 2 Jak BH ABY HE 5) 304 6) उतमे वायु आश्व लही पार इतमे निर्वत्तन अतिरिद्ध प्रकार दा होता हो 10.) हलमें से विष्ठियोंग पाए स्रोते . जनका रारीर जहार होता की उजकी टक्ना डहार होती की BHITZEICH WIN X Su 1 2 6

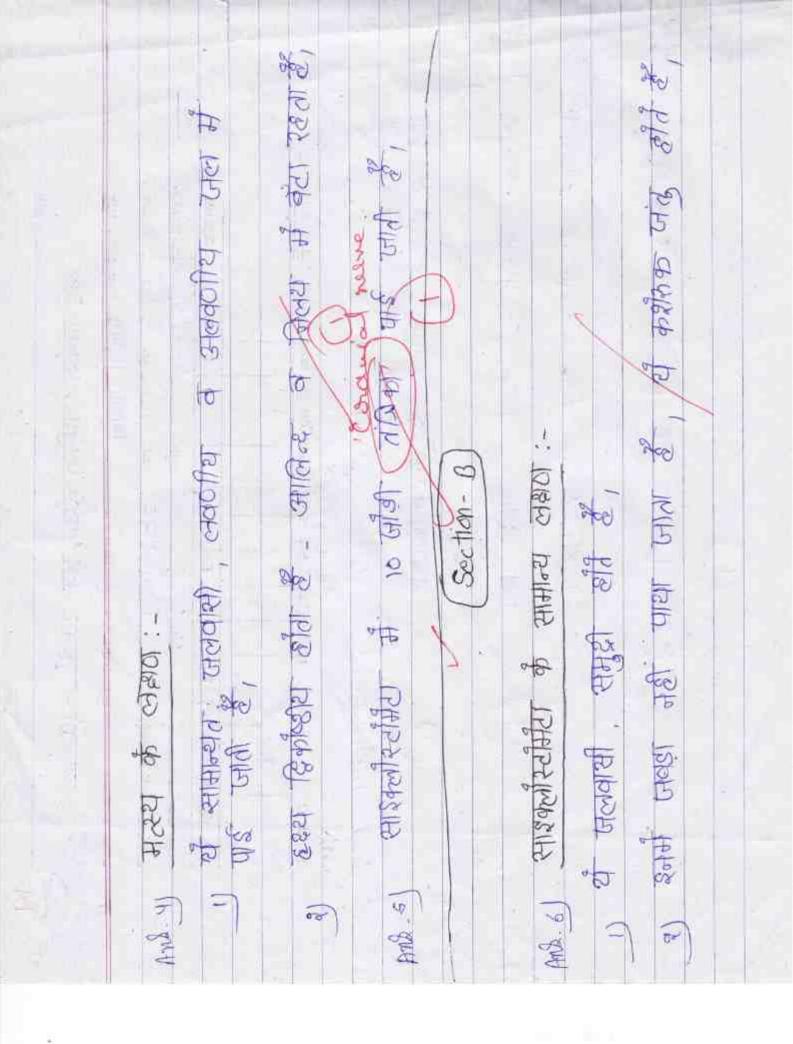
RUP dent to dental through Stands 604 462 तथा <u>म</u>ुखा भौयता <u>छ</u> 200 -PIM - T- day del 909 उसे दिस्य भोपाले उ जग्रा तही पांशा होते है, ये भेपाल 夏老 2560 without of at भग गिर्गाखार रमासग्रेट्य तास Tup Eldi सीक्ष करने स्टोमेटो ये द्री आडणो ल्याया धुमाता ये ट्रामाधाणा त a b The of othe 178 विद्रीमा थयों ते हा देखा 5a व्याह्य इसकी सामात्य ताम त्रीम् ही एक वाह्य, परणीवी कता है वाह्य, परणीवी छहा, तावा, कह F Loir 4 15 10 600 (Inter - IFII-B उपसेंध वर्भ 610 विर 12 418 Fedder F सभाज खतांथा जही छहा सार्ध्यता 8 वानि करणान B 4951 हरीय 5221 1 zung t 1 mlos ココルマ らブナ



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सम् भाग होता है, उसने ति होती है। पहांसायवाल की होत 2 04021 Ì र रो प्रमाधापति भूरते में सारेशे (3) 52 53 Jr. 64

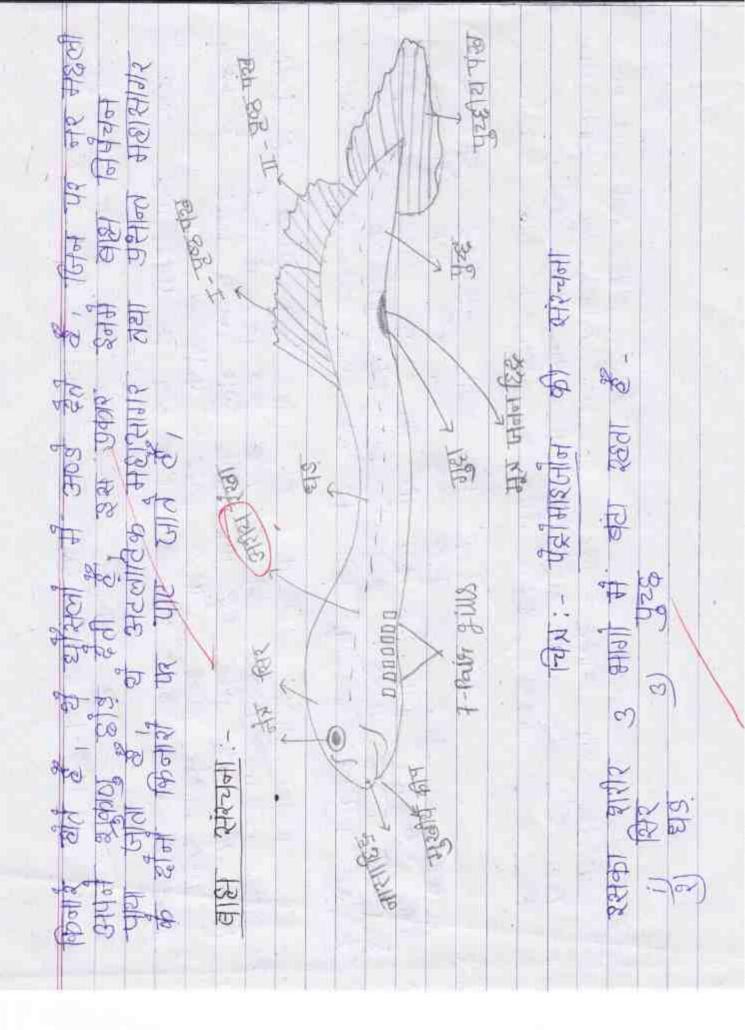
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And 3) अस्थित महती :- कोर्न, सर्कर उपात्तिल महती :- रार्ग्न, १९ मह	पैद्रौमाइजॉन सम्मान्यत जलावासी समुद्री न अलवणपलीय शब दक्षिती अफ्रीका व अंसमिटिका क दोना किनारी पर जाती है , अखातिक मंत्रतागर हो हिन्तारी पर
	And 3) अस्थित महती :- कोर्न, सर्कर अपरिधान महती :- रार्क, १९ मे
mb. 3) पैंदीमाइसीन की लैम्से महली की कहते हैं,	पैद्रीमाइलीन की लेग्र्ने महली की



REIZAN 19 Bright Efg. A200 REAL & सि the state अमुख स्तिन है यौता EF3 Ne St विंदो HIE UNA मामरे 5 d Cl A P माती है। ten of a lotel -H लेखे व हैंगोंगेश भी वहते महत्वमुर्ग युनिमत्र तथा अयुतिमत पंछ eses Ser गुत्याहा परिवर्धन पाया जाता 926 Ste एक जोड़ी खुनक पाए - आणिन्द व इमका शरीव लम्म Eldi dis þ. 513 निवेचन वाहरी 325 जारीर सिर 6457 Pla 102ch र्द्धन सु 3 D 5 To 1 3) 101 00 5

स्वभाव व जावास: यह प्रलोग, समुद्दी जीव है, इसका यह के अनुसार यह (cech के समान होता है, यह पुल में तैसी से तैर के अनुसार यह (cech के समान होता है, कह वैशानिक) होती है, यह इरन्से उपनन राह के पात है, कि वहानिक रातति है, वह उपनन राह समुद्दी माल में राहपक हो पताते है, यह उपनन राह समुद्दी माल में राहपक हो पतार इक्तरा कर धीयसे वनाते है, रन के धानते समुद्द के धी पल म M. 7) पैट्री माइ जोन :- इसी सामान्यत: लेन्से भी कहा तगता है कार्ड रे संध aditanzor:

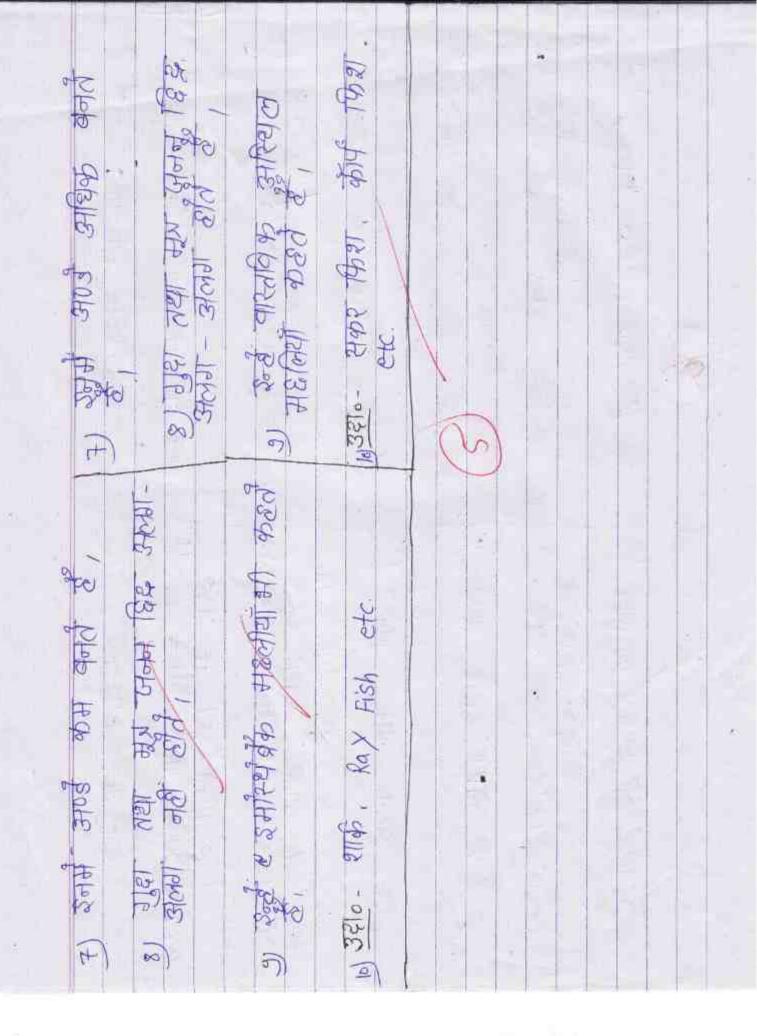
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Lelita Keter GIN 6AAG ald मंत्र तथा एक नोसाइड पाया जात Ret A मुसीय जीप इ.M PILE BR 18 1-2m AB N 10-स्टेसमें घड़ स्पन्ध कुप से कुली होता है, क भाग को घड़ कुहते है, उस्प्राम असमें पुष्ठ भाग मा मा म मार्च पुरुष किल्लाता है। नम माहा में इसके स्थाता में 18 child x qial A यिर:- अभ्य भाग में सिर पाया जाता हैं, इसमें कि हैं, इसमें जो तरफ ह सुमें रहता हैं, इसमें हैं जो हैं, इसमें जोता तरफ ह सुमें जता है, इसमें हैं जो हैं, इसमें जर्भ से नहीं पाया जाते के तथा जाते हहते हैं, इसमें एक जोड़ी ने तथा एक नासा अते हैं। पह में पीई का मार्ग मंस पाए जाते है। एननिक रूपर में डेर शारीर इल के सभान लम्बी ट ह, सक्सी लम्बी पेंद्रों माइजान भित्र पितन हिंदु 1 पाए जाते 3) <u>426</u> :- Els 43 1 1 10 111 <u>426</u> 472 1 N R.h 12HOI 32 HAR20 एकम गुंहा एक जोडी पाए साते els -314240 जिसमे A COLO (cores 8

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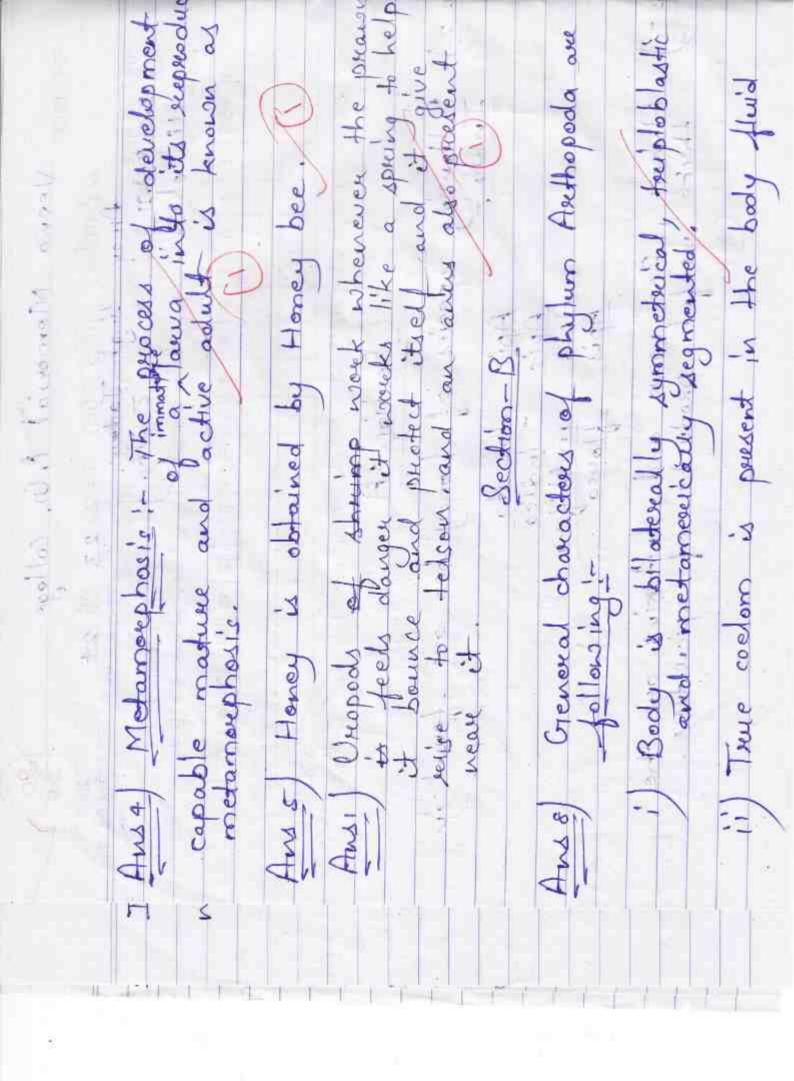
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5) इमका डांत: कंकाल उपारिय का वना होता है,	5) इसका अते: कंकुल अस्थि का वना ठौता है,
6) निश्चीयज्ञे लोहरी होता है।	6) निर्वेचन आंतीक शोता है,



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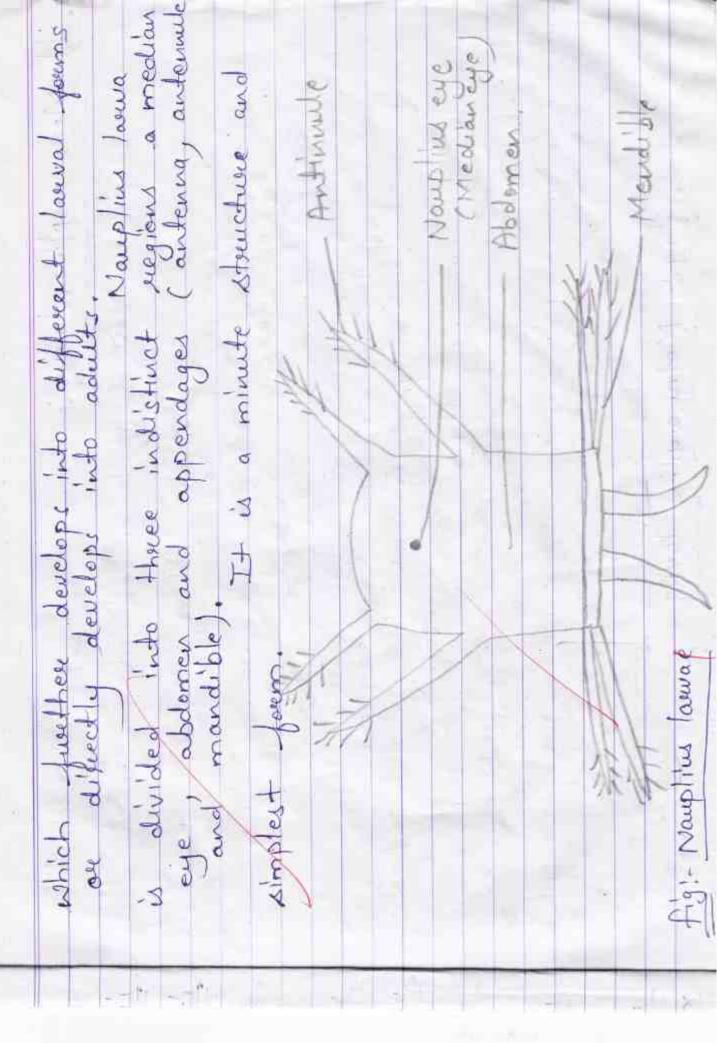
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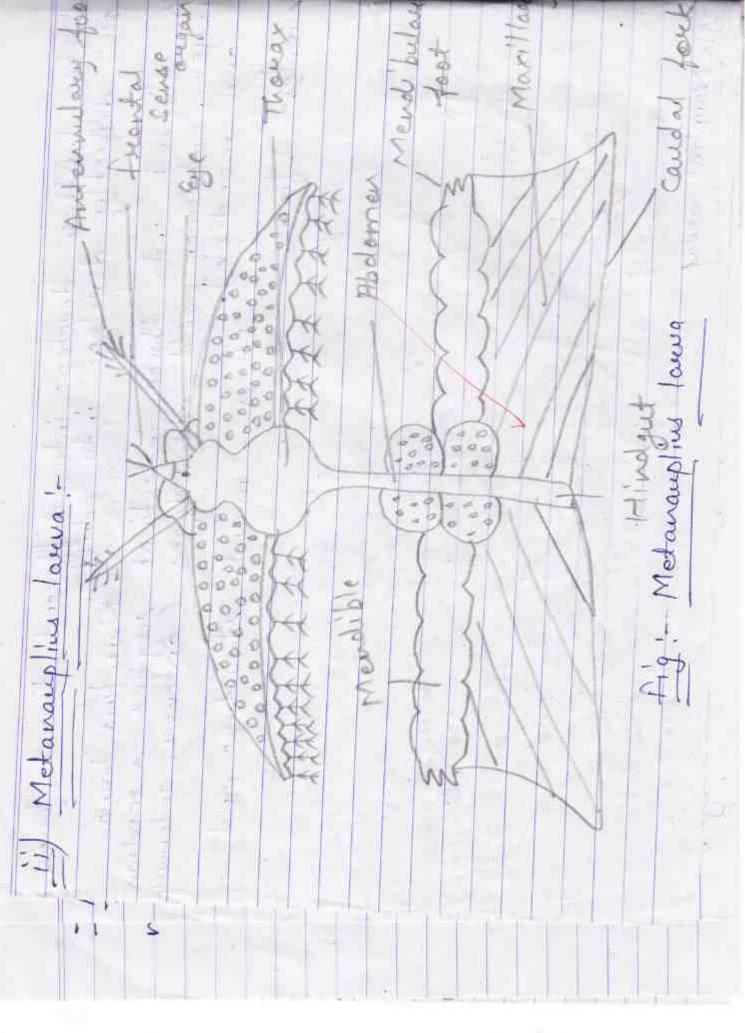
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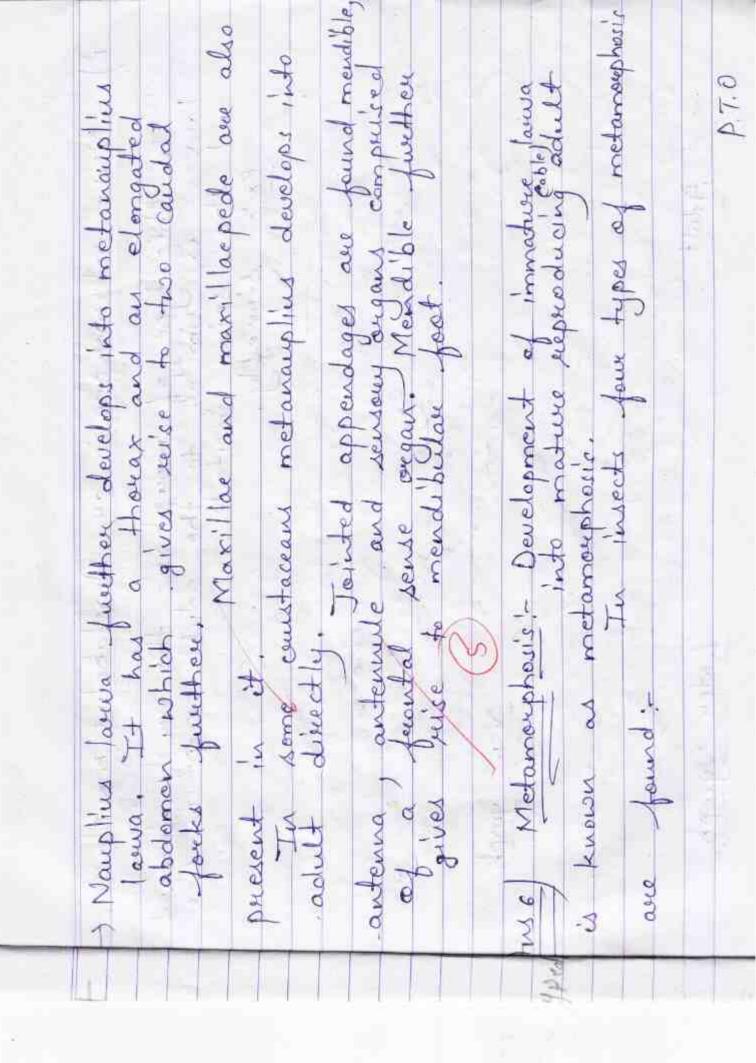


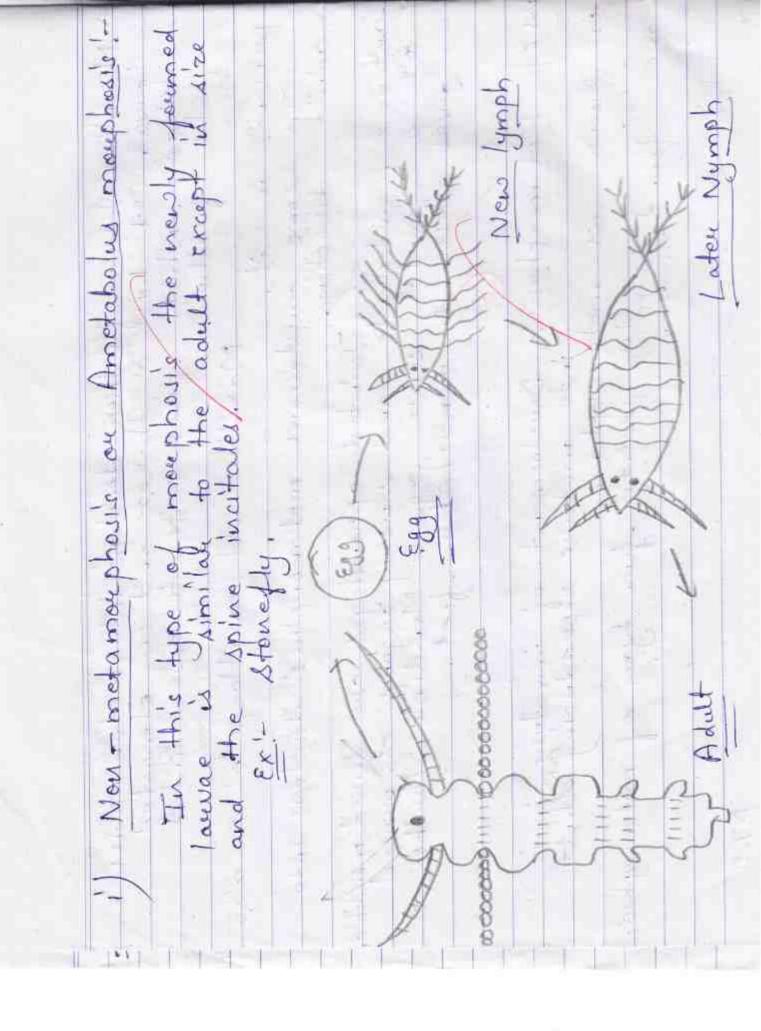
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feature of the Courstaceans and found in mast Crustacea shows direct and indirect both actual al asuistadea which and deen in the Teca. also, have some different forms which are It is the most basic and simple lawa 1 1 1 10 Intermediate forms of lanua wich types of development. Following are the T. It is the characteristic 0.000 300 P as - Metavauplius and photozoea Méga Mysis. Phyllosoma. induirect development :-Nauplius aswa --Specificity named -Megalopa Nauplie of them. 2000 . T And [71





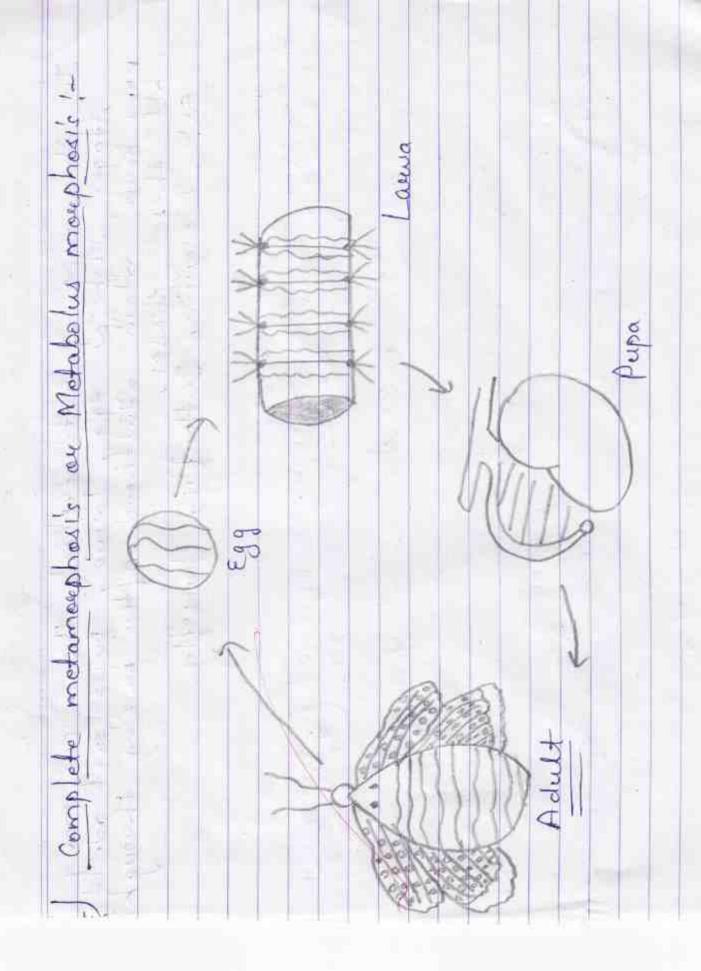




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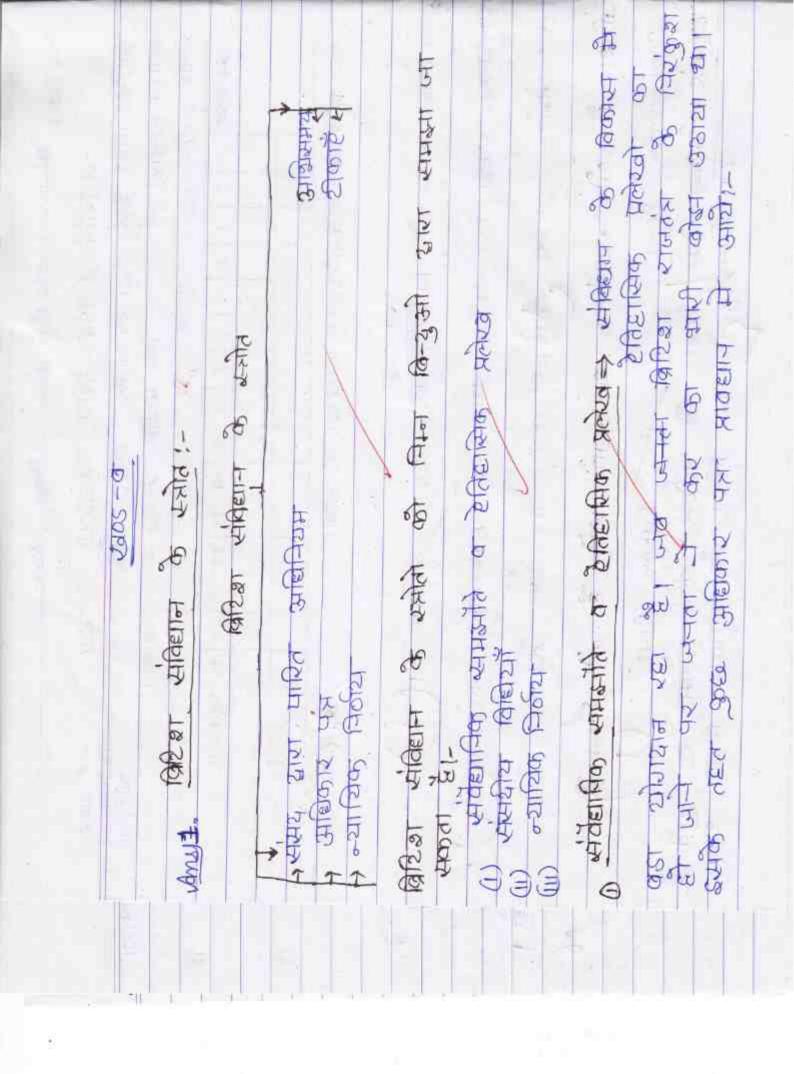
In this type of metamorphosis the newly four Nym or noisals are aquatic and respire by trached metamorphosis the the numph and adult differed that adult lack in wings and genital appendages young Exi- OTHOLShoppen, Sting bug. Mouthing Nymph ex:- May 14 and Dhagently. Paullo metabelly metamorphosis!-Eggs R. -by trachea. (external Adult 15



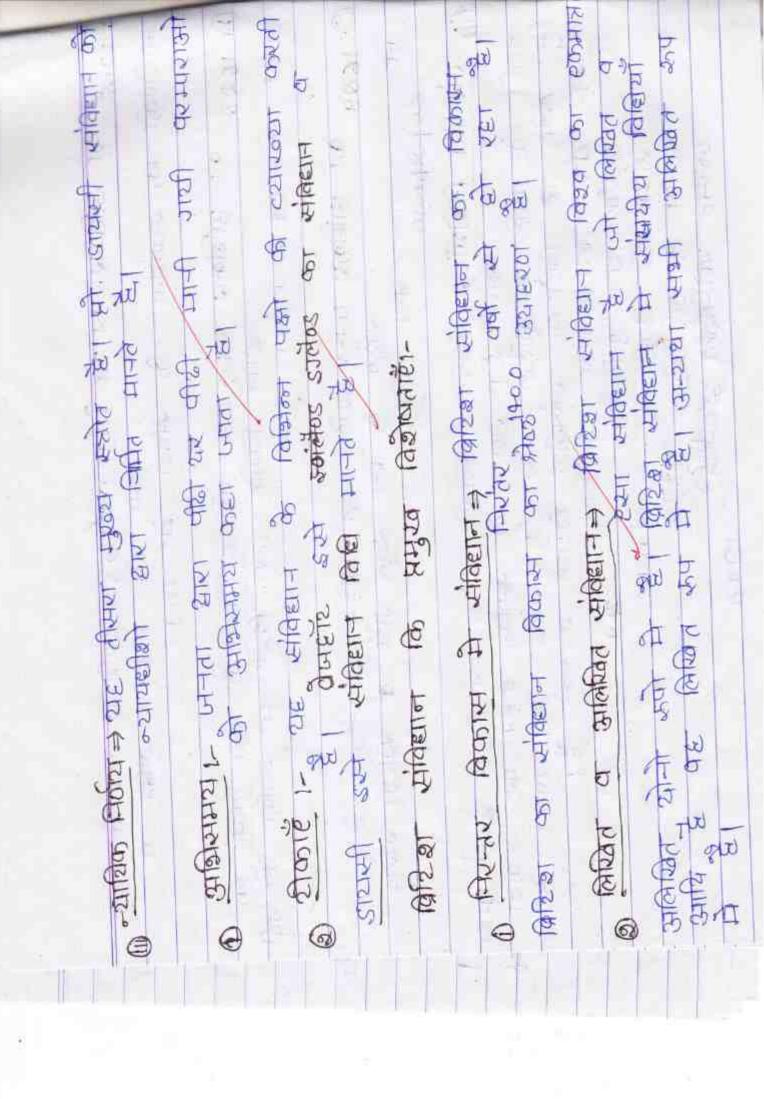
In this type of metamorphoris there are many stages such a egg law a pupa and addit new been attain adulthood often passing through all these phases. Buttenfly, Housely.

And Alander Menner Mennerulal P.G. Callege and Alander Alan Valent, 413 20 addial frage (Alan Valent, 413 20 addial frage (B-10-2023) unlish frage mander Control for (B-10-2023) unlish frage in the former (B-10-2023) unlish frage in the former (B-10-2023) unlish frage in the and (B	20 24 20 24 84 43 संख्या	11 12 13 14 15 get 411 at 1 2 13 14 15 get 411	नी केतिला है। ()) व्ययनीकर कहा पति है। कि देन है।	ाजति है जी निम्न है!- Labou Party
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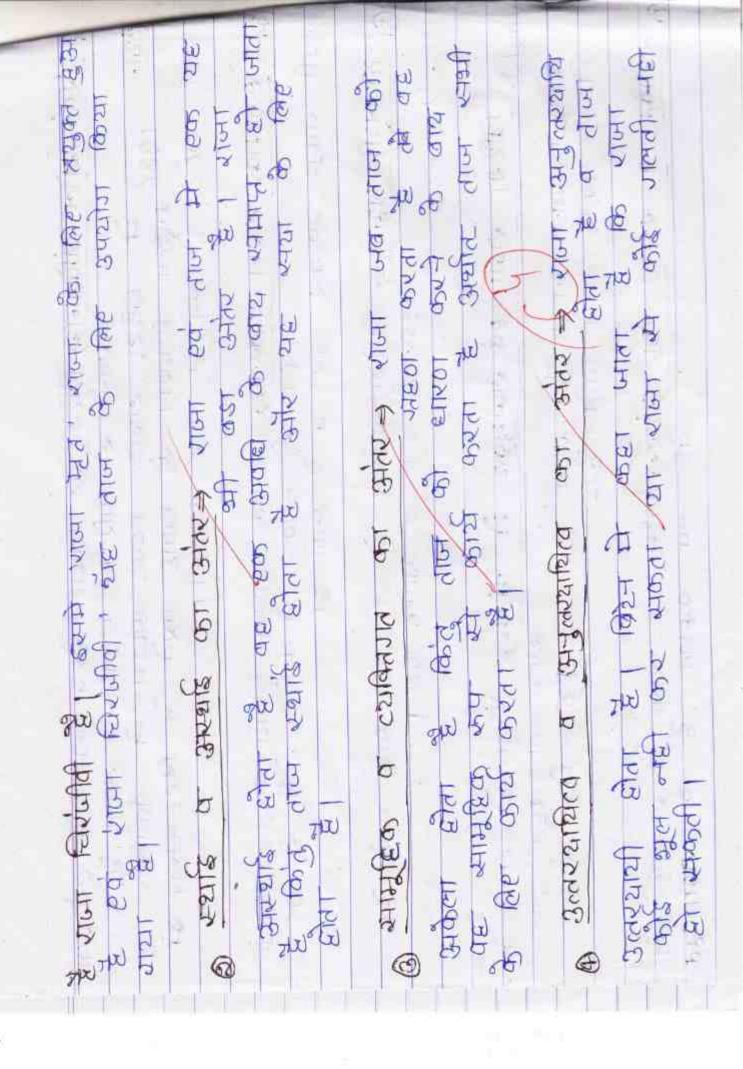
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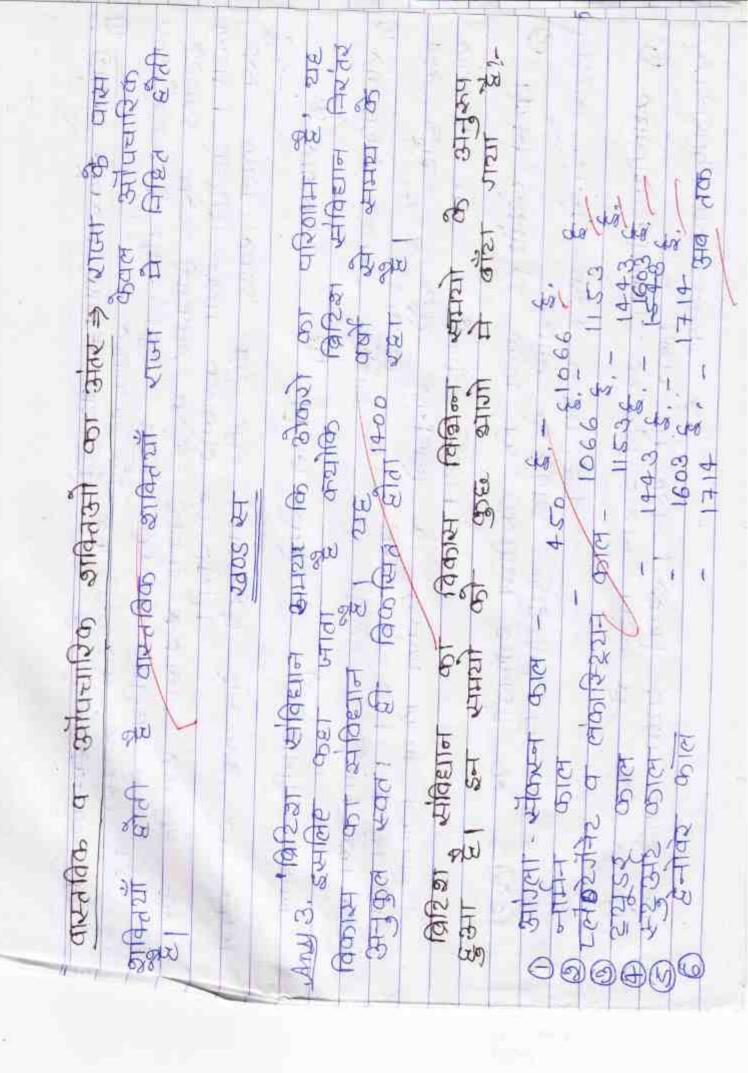


1 60 1 (1) संसयीय विद्यार्थ अंसरीय विद्यित विरिश धन्त्रोते का पुरम्य मुख्य अमित जियनेक द्वारा किस्ती उत्ती टयमित को वेही 0 1215 का आधिकार पत्र द्या मेरना कार्य⇒ इस अधिकार पत्र के तहत 14177 8-भक्ति E K THATA IN SUCO U (b) 16.28 का आधिकार पत्र⇒ इस आधिकार पत्र के तहत राजा अन्ते के लिए व जितिहा जन्मता के आजित हासित पर लगाने के लिए व जितिहा जन्मता के आदेद जनिवन आपन d-1 itunit of alle an terretur a 4012.31 गामेरको कि य्वतंत्रता के यांच्यों में ना आ मित हाक्ति C 1609 OF GIEDOR UN STATO AER PAR - D MORN लिंह आये आट विदोयक संसंधीय तित्रियों कदलाती है। जैसी- वंशी प्रत्याह्मीकरण अधिनिशम हिंद्यु के लिए रवुल गये 8461 उल्लीहिकारी अधिनियम - 1701 8++-जनमत प्रतिनिहित्व क्रितिर्वि ३ वनाम लोग अधिनियम भामरसेट विवास 424 वनाने को खत्म किया Luperpender 6



 अधिर्वत-करील सीवेहा-1- कीटिंग का सोवहान के द्या का पर स्थान है हर्व उस्ता के सित-करील सीवेहा-1- विटिंग का सरिक्तन किया जा परकता है। अग्रिंग 1936 मिटिंग का सामाज कर विद्या के सित कि सित के सित कि सित के सित कि सित के सित कि सित क





0 राज्यप्य, - अमका महिमान न- के महात में हुआ। इस समय तिह होरे न- 8 जातया - - 8 प्रधान में धी। इन्होंने अपने तिह होरे - - 8 हहीरे अमुद्यायों का निर्मान किया जिनारों = 0 जायेला सीनभाम जाल ⇒ बिटना में हुई हर हम जो लगहाया कि तक चाला 1 हमें - हमें जायेला सीनमा जातियों ने 450 ह. हरालेवड पर उत्ताक्रमण करके छापना इशालन स्थापित कर हराले के दीय सत्ता कमाजार हो गायी। देन रही जो मिन M विंदान जेमीट & ज्यानीय शासन CH an al () स्थानीय शालाना- स्थानीय शालाना किंन में आंश्रम से शालनीय कहा प्रात्ती में रहा , रसानी प्रयान हैकाई बिटान जोगीया- राणा कि व्यतित शक्तियों पर बिटान जोगीय कहा पाला है। A STATES राजपद्य का आपुआव हुआ। SHOTY (Es que

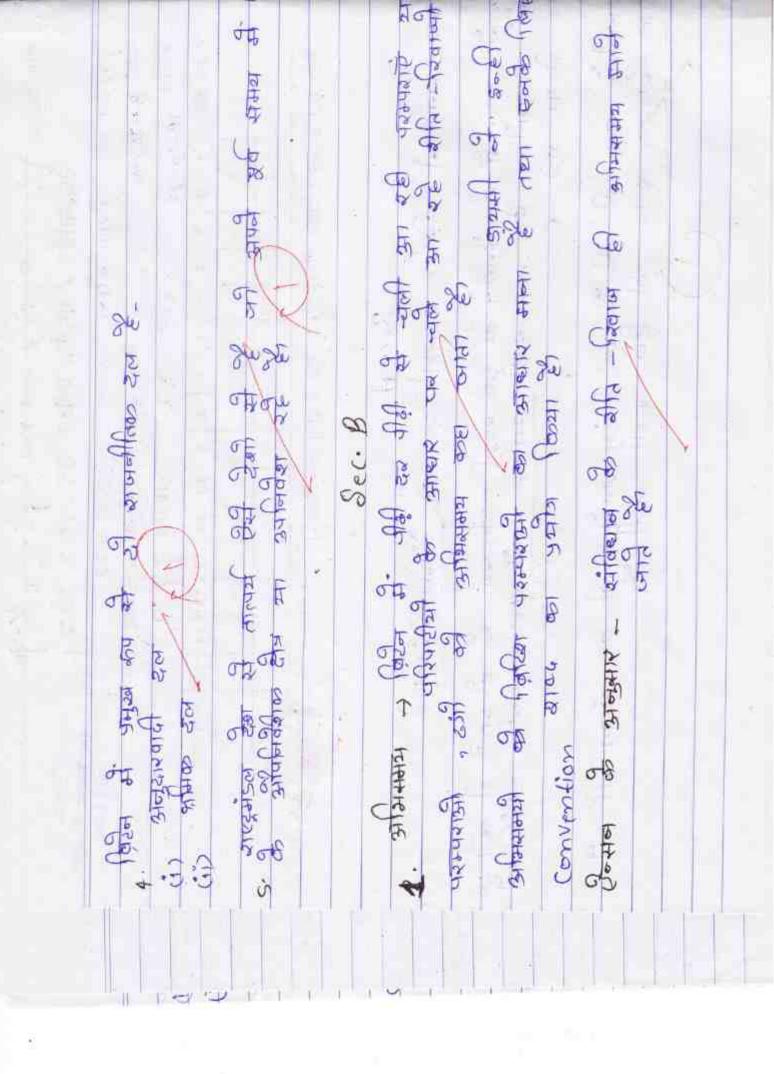
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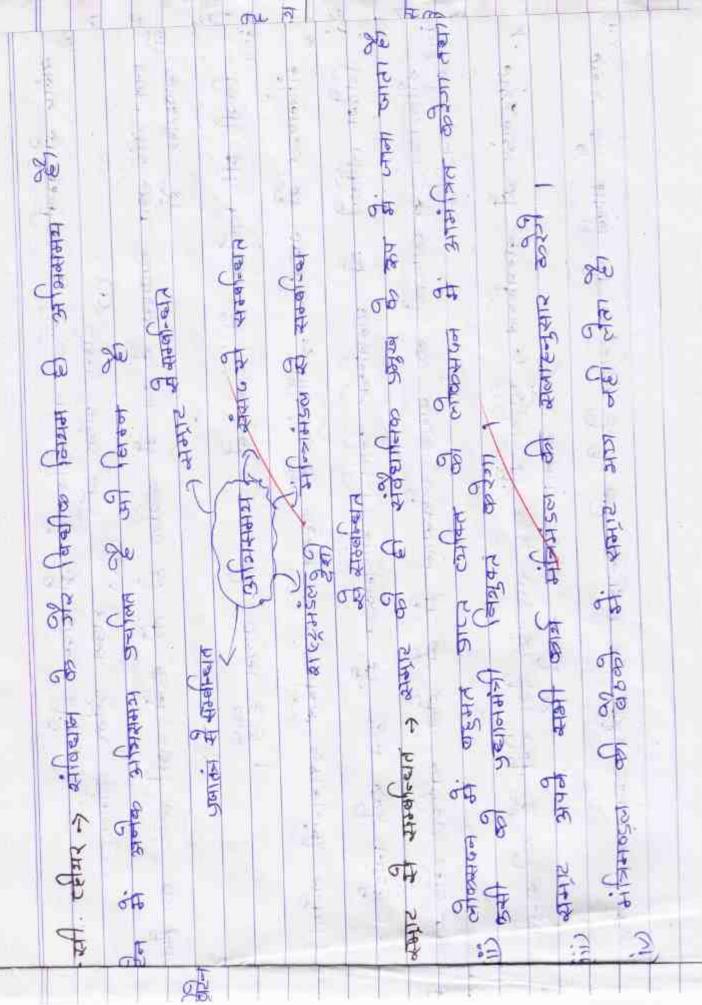
अर्द्धवाषिक/ वार्षिक परीक्षा, सत्र 20 20 गावार्य भाषित्व के किंग
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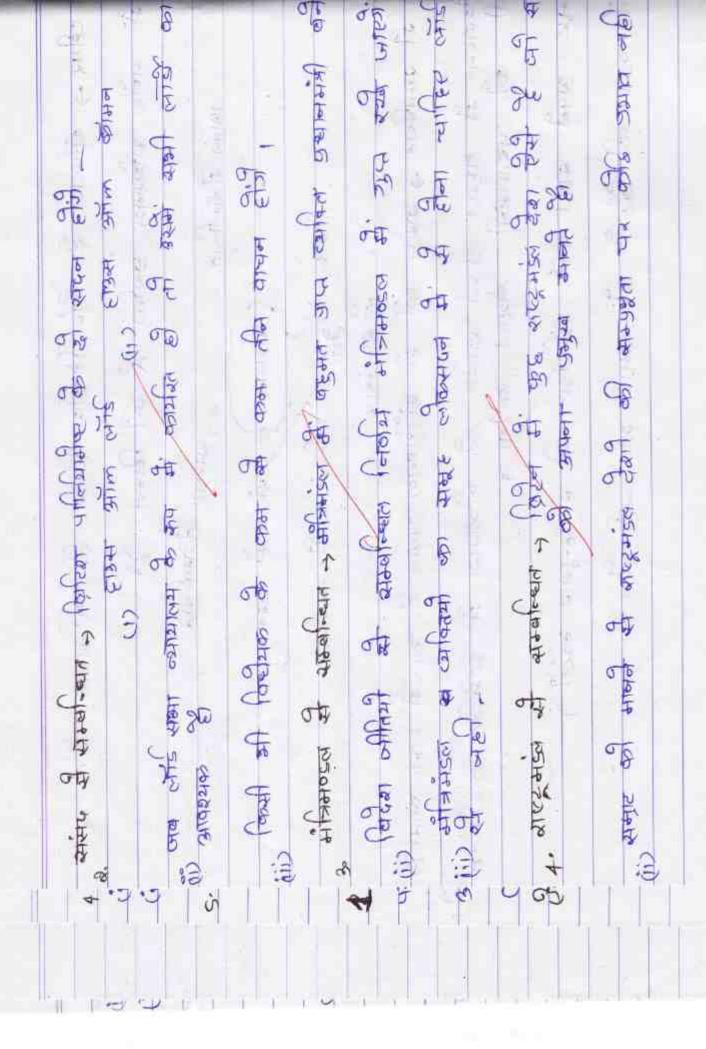
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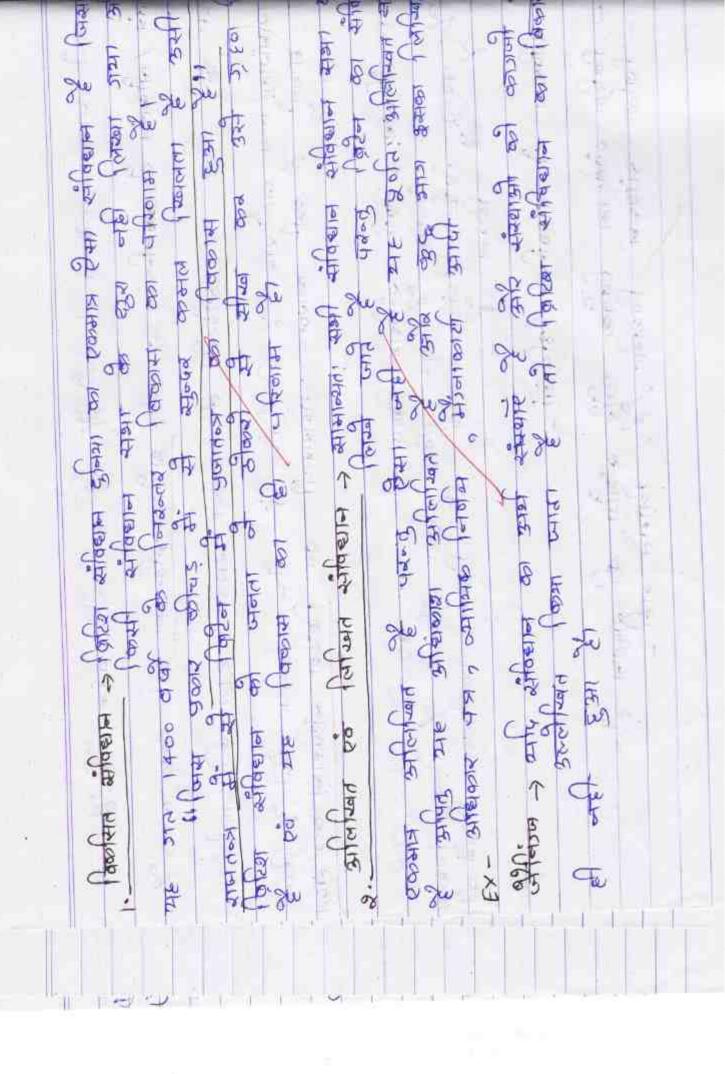


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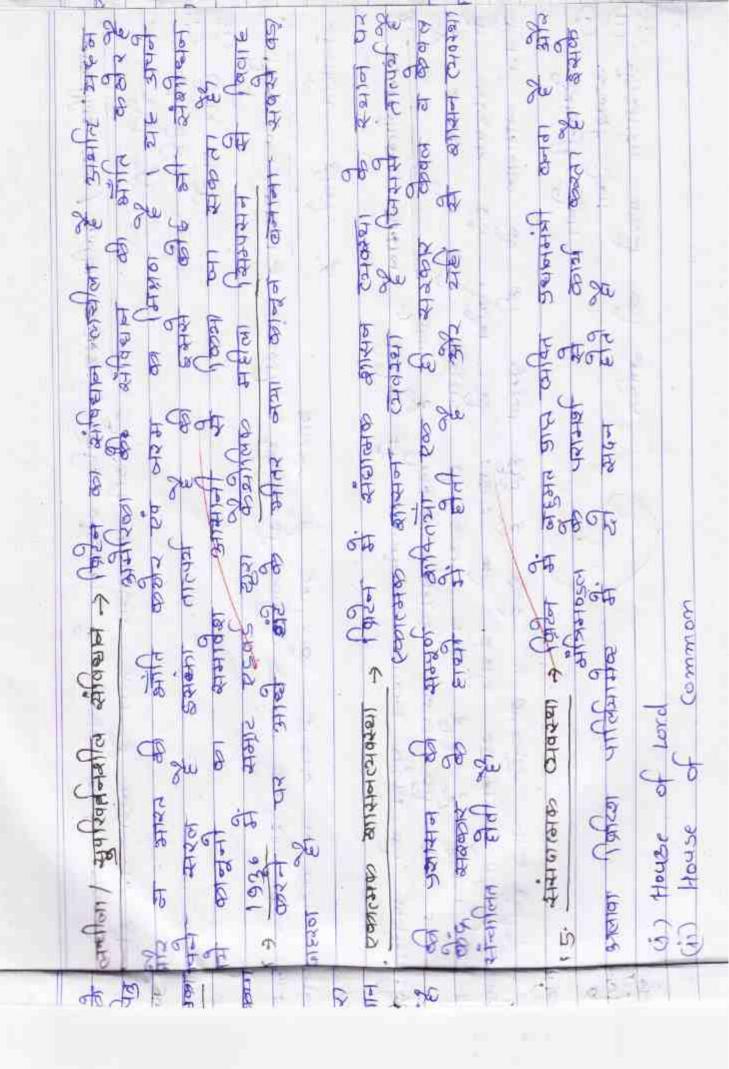
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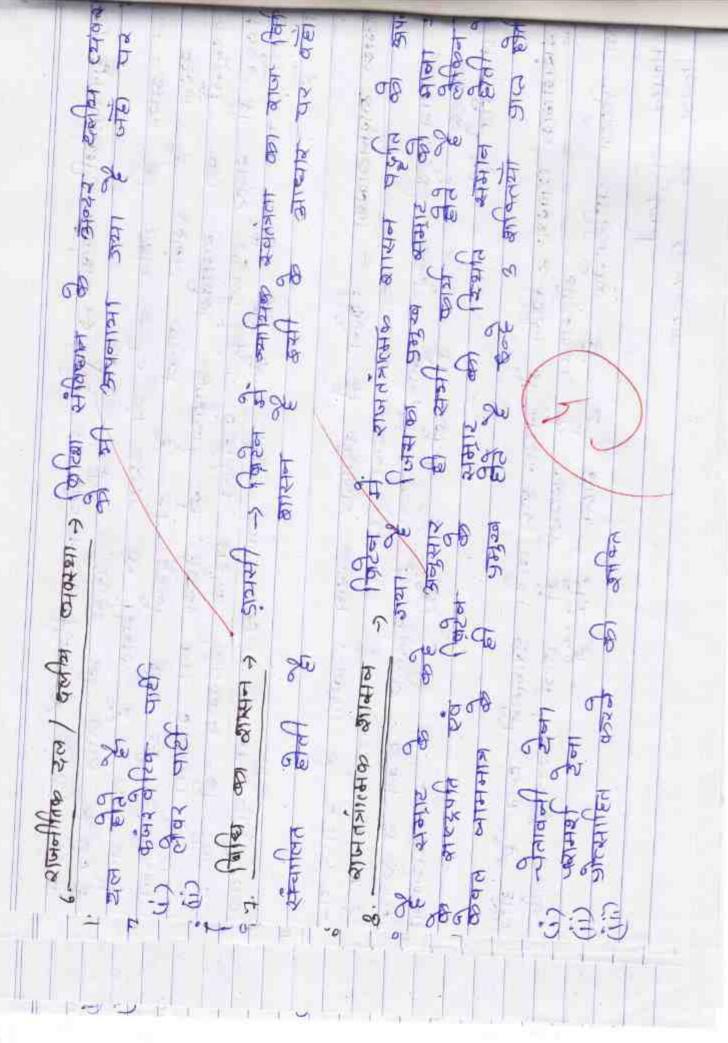


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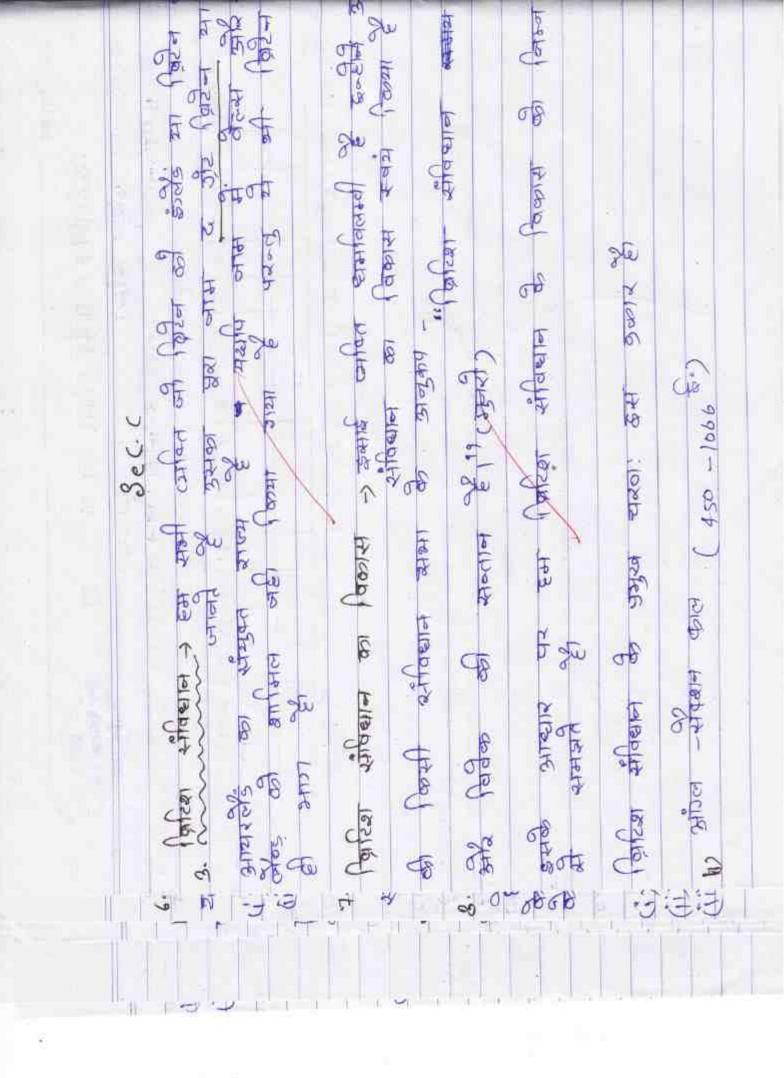


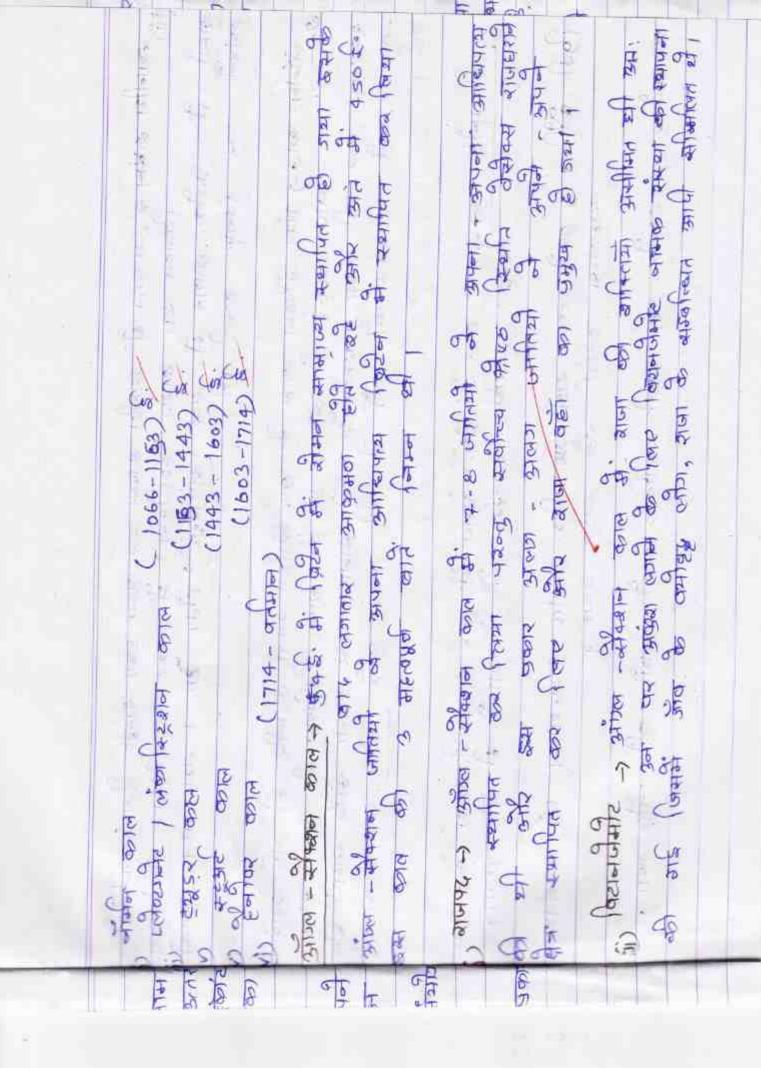
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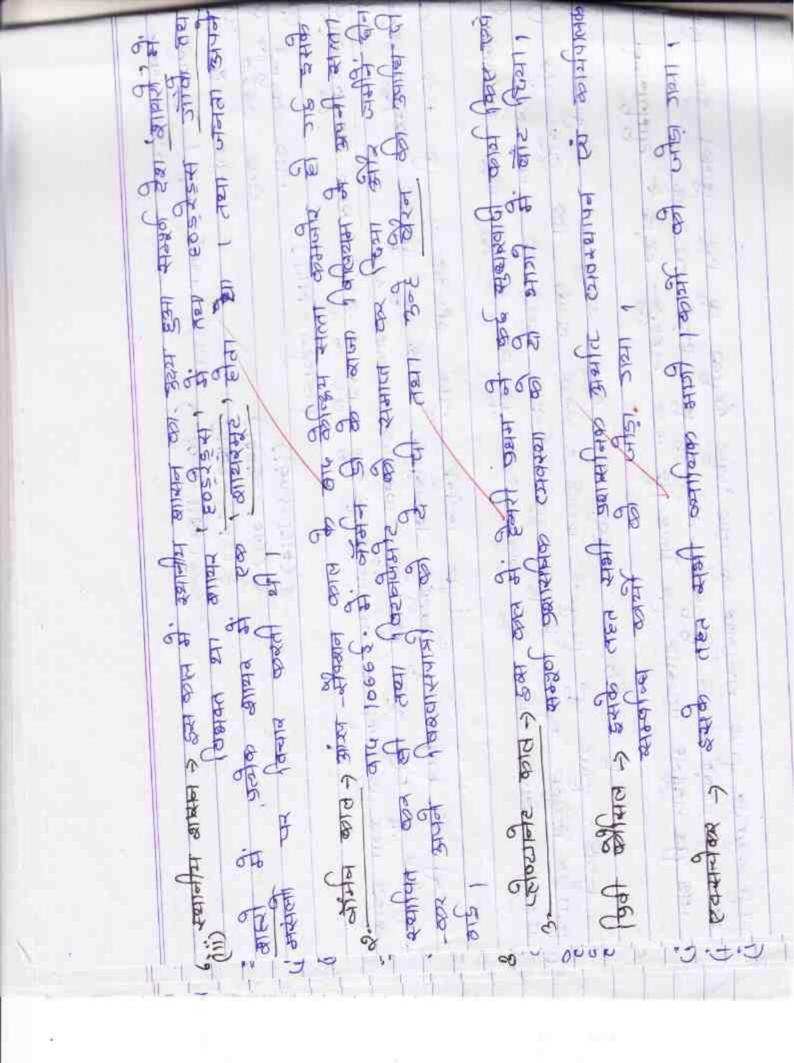




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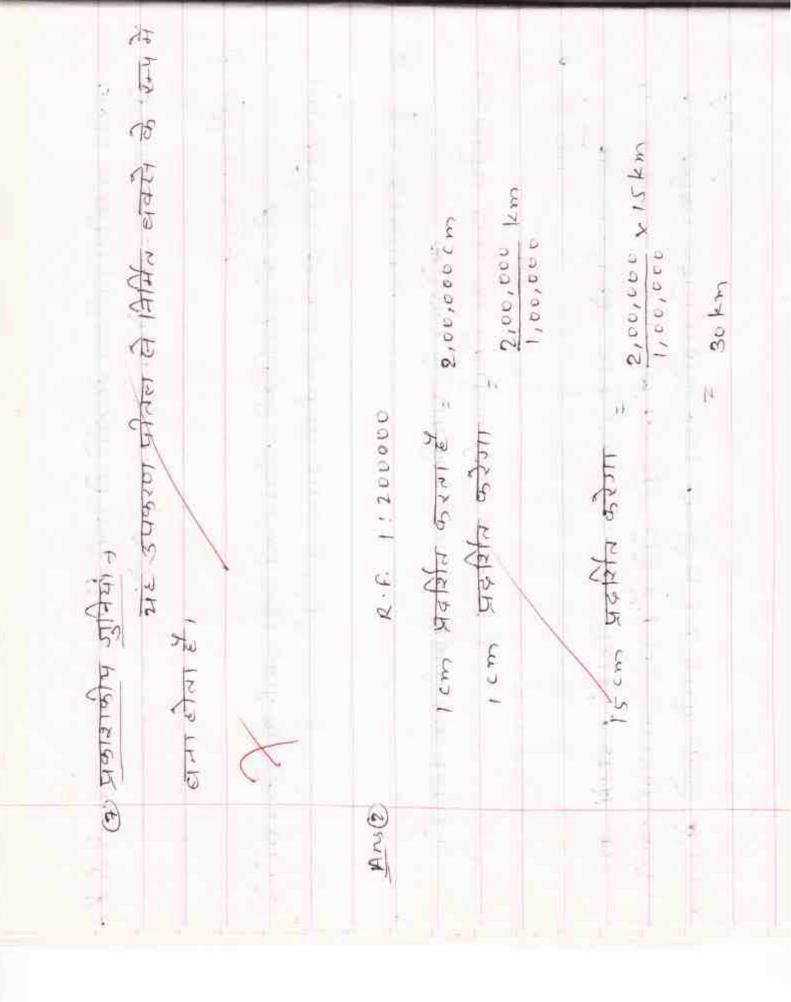
3 किसे काल में 15 June 1215 की मिनाकार्टी अधिकार पत्र पत्र हरताक्षर पिकट उप 1. बाजा की 1495 1965 तक का बामगाना जिटन में साम की का का का का का का साम की समय प्रकार का साम जिटन में साम की साम का साम कि मान की साम का साम कि मान की साम का साम की साम कि मान की साम का स 5 28 कात 3 करा कात में महायानी लिखावेद्य के कीर्ड कु नही हा ती है जो जा एक अल्मानारी शासक हा। हमने सांसद की की भिर्मासम आया को जा एक अल्मानारी शासक हा। हमने सांसद की की जोवा करना आया 010 10 मेरी जाया आध्र रानी des qu'ai ALGON A 2 day से मुक्त कर (क्या डाया । यर्त आनुसति के भिन्ना लाजा कीर्द कर नही to 1 Itale ID BILE (Je -> 1666 में जीरवधूर्ग काति के निनियम य तथा याथा में उनसी छह महत्वह्वर्ण नते भे जन्मतिति 10 WILLE ति सम्मर दि d stair al E rshiz Cit

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जरीन की मा (जेंड्सा)) त्वेड्डा की लभी (कोधियें) में यह लबले लरल लिधि है। यह (जेंडा जरीन करीह फीला ले किया जाला है, इत्ती कारण उत्ते जनीन फीला (जेंड्डा करते हैं। इत्यों अपुरत उपकरण किंग्ल है (जरीन (जेंड्डा करते हैं। इत्यों अपुरत उपकरण किंग्ल है (जरीन (जेंडा करते हैं। इत्यों अपुरत उपकरण किंग्ल है (जेंडा ह ह इक कापाल ह जुनिया (अक्ताकी य जुने	ज्योब- ज्योब तोहा, इएप्रार्थ था एल्प्रोमीन्यम की बनी होती हैं। अत्ये प्रत्ये प्रति में 160 छड़ियाँ होली हैं तथा इसके दोनों। तिरों पर पीगल के हत्यो लो होते हैं। आगना की सुग्रिया के लिए दल-दल छड़ियों के अंतर पर कुमग्रा: एक, दी, तीन व नगर जोंड वाले सीन्नल के टांने लोगे होये हैं,
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(2) मीटर जरीय , इस जरीय का प्रचलन द्वामलप प्रणाली डरापनो से की की की की मापन के लिए निवेशप की मापक फीने की . वाले देकों में रहा ही उतमें प्रत्ये कड़ी की लंगाई एक पुर होती है ७ इंजीनेयर जरीव - इस जरीव का प्रचलन ब्रिटिंग माप की इकाई अावरेयकता होती है। जुर्वेक्षण के लिए ध्यारियक फीता उपयोग उाब्हर जरीय न इतको 1नवीं अस्तादरी में प्रचालित करने का क्रेय PSH-SJT-27 B) CHINT & जरीय तीन झकार की होती है. on and are the H 37127 E) 2 and 1 + 3 6



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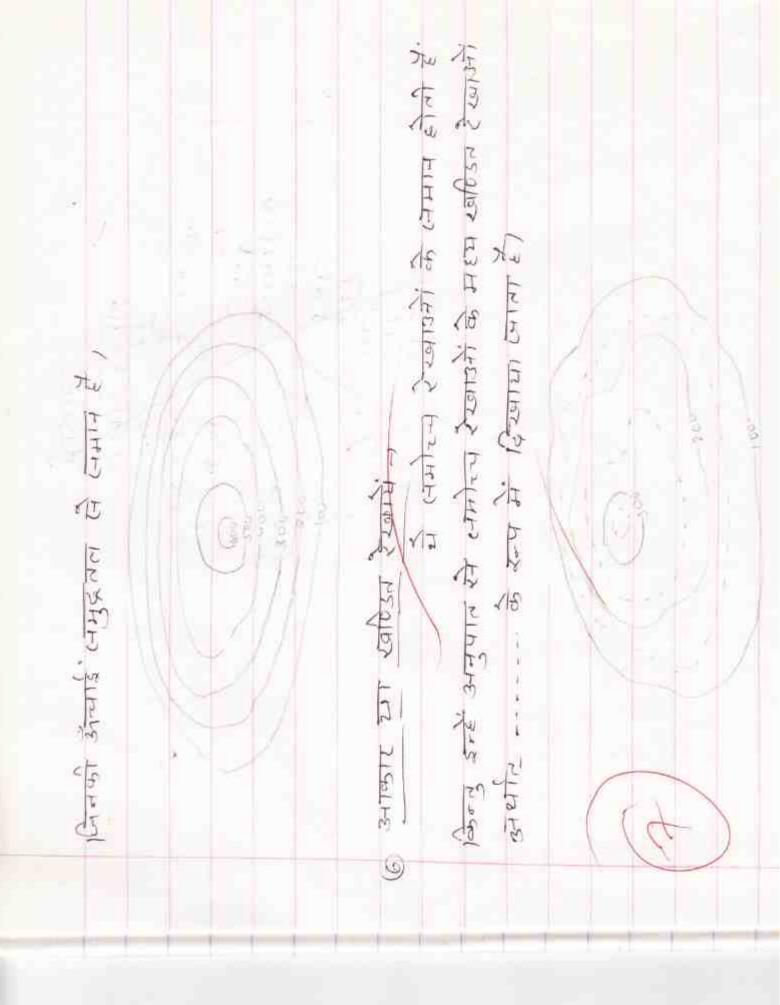
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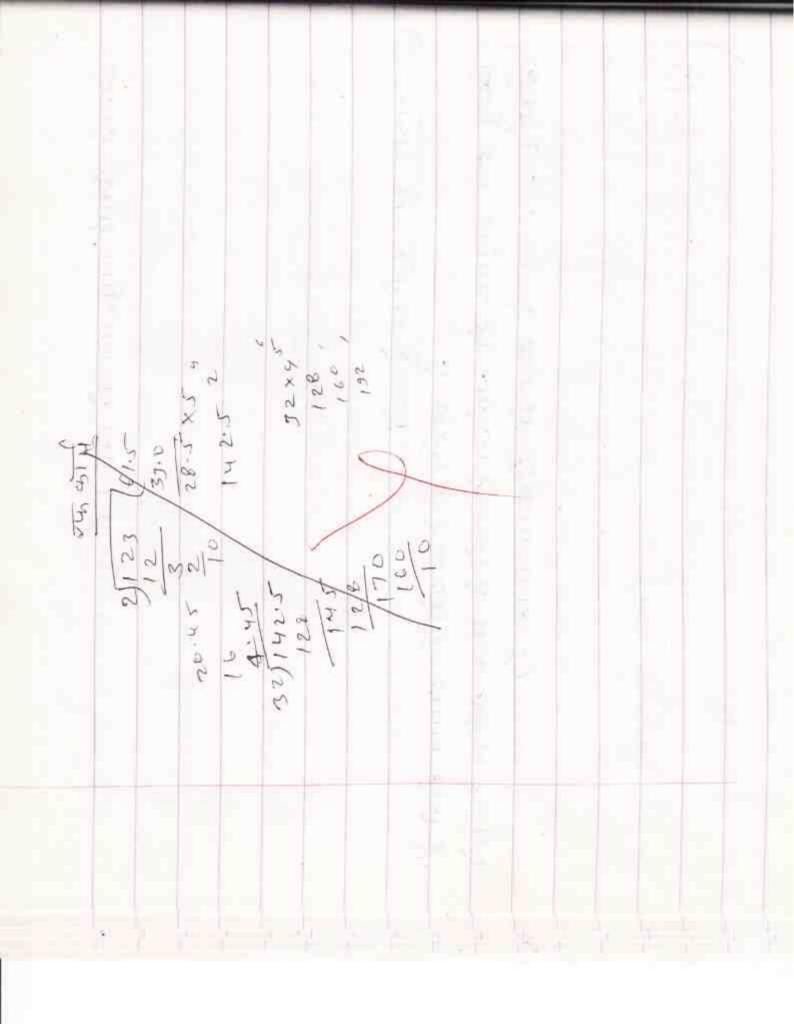
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यहलाऊ, ८ = बहलाफ को की निग्न सीमा बहलाफ को जनकति केन्द्रीय मूल्य है जित्तकी उनकृतित सर्वाहीक जार उनाली है। अहुलफ ते अगजाय क्रांफड़ों के लम्ह में एक देला ख्नधीत जमान्य ही आई तंख्याओं में ते जिल लिंग्या की सहलय को के बाद की उमावृत्ति अहुलाय जरी ते पहले की उनावृत्ति मबाने आधिक अमयतिय होती है, यही लहलक है। 2fi-fo-fr अहलफ देगाल करने का धनत्र न z = / + + + - + 10 MICHES 1120 (HE) Z = QENG +' ' 1 बहुल ५ ७ Ans

अन्यावन निरम्पण की विधियों न स्थलाकृतियों एवं केन्यां के सामयित्र पर प्रदर्शित कंग्ना । स्थलाकृतियों एवं केन्यां के सामयित्र पर प्रदर्शित कंग्ना । अन्याकातियों एवं केन्यां के सामयित्र पर प्रदर्शित कंग्ना । इन्यू ने दोही . खोरी एवं दूही रेष्ट्रांये होती है (मे) तीन्नम होग् - हेम्पूर ने दोही . खोरी एवं दूही रेष्ट्राये होती है (मे) तीन्नम होग के हिमा में इपर से तीने जोती है । जहां हाल डनपिक होना है बहा मा क्राप्ट से तीने जोती है । जहां हाल डनपिक होना है बहा मा का स्था से जोती है । जहां हाल डनपिक होना है बहा मान पाल हतीर जही मंद हाल होगाई वहां खुली जुली, होटी डरीर छम त्यांन खीती जाती है । पर्वन प्राण्ठरहा , बत विधि में यह कल्पन ही जाती है । जो भाग दांग में पहुले है इन्हे रंगों पा जेड दारा आहरा या हल्का रंग दिया जाला ही
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आभात्रें उनधीत रेगे उन्हान जेर ले प्रदर्भित किया जाता है ्रमं विभिन्म कुन्माई की परमें को लिभिन्म इनके दारा ममुद्रका से वास्तविद क्रेगाई का उनकोत्र पार्टा विक् इन्रोरिय हे के एथला भिद्रमदा है मानमित्र पर हिंधन उन लभी स्थानों को मिलाली ह ममोरन रेखाये हे रेखाये होती ह प्रदीन विविध यिनों से प्रदर्शन किया जाता है। - BM ISZUM A IS2UM .1520 M 2- marina 3- and 201 (33) Entana 13-E (the start of (5) 2-NZ - 2 WA Palla + (trip) 15 20m 37 2. Nor Page 21124





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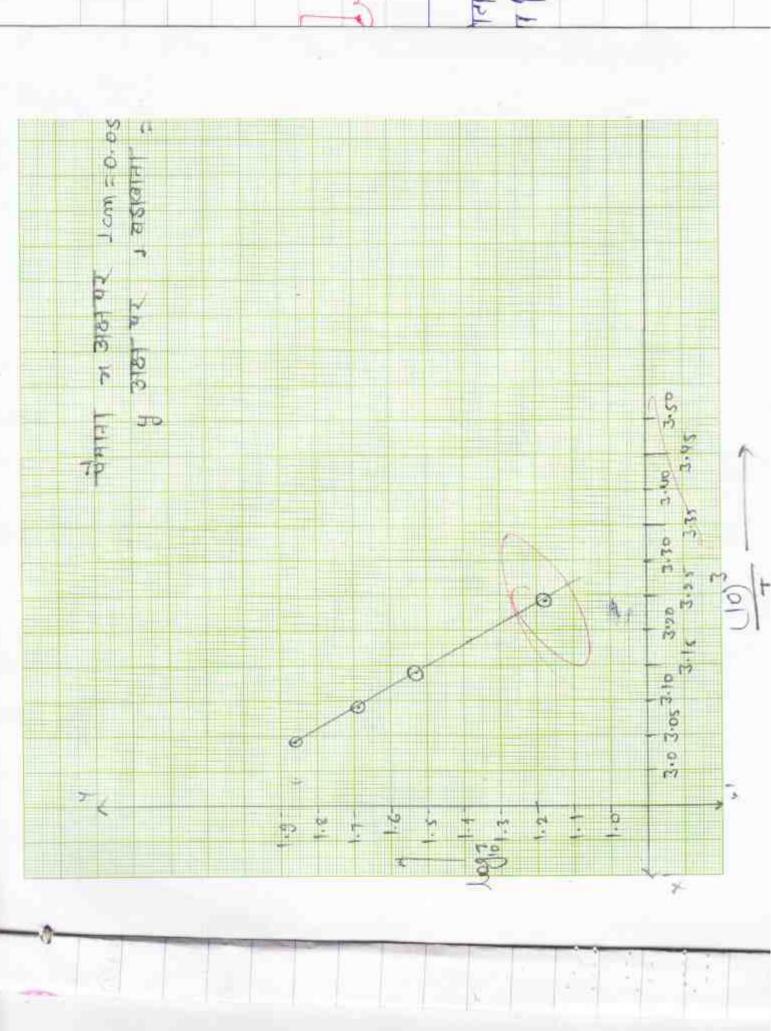
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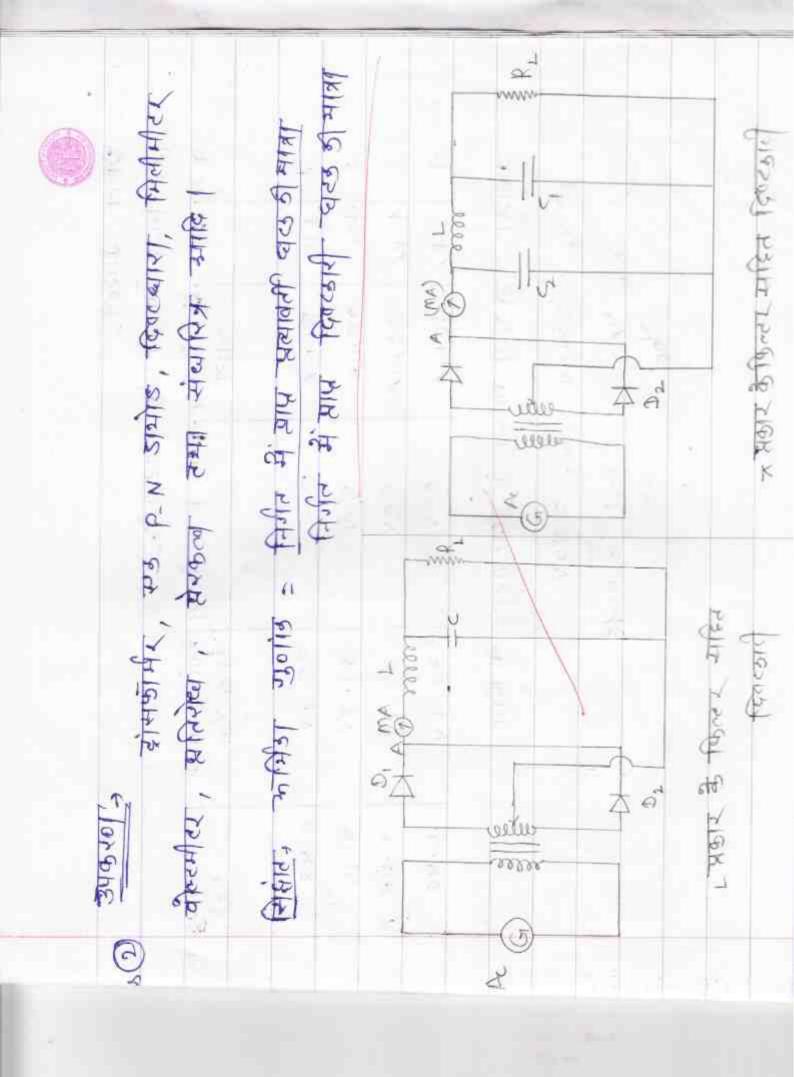
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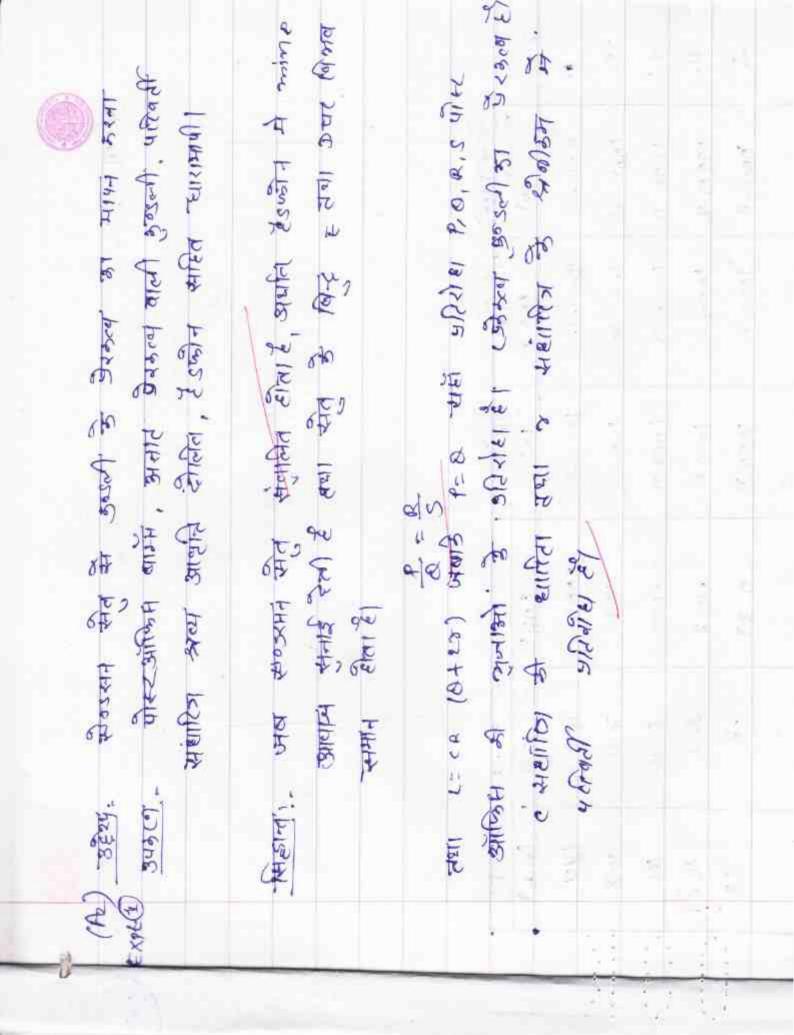
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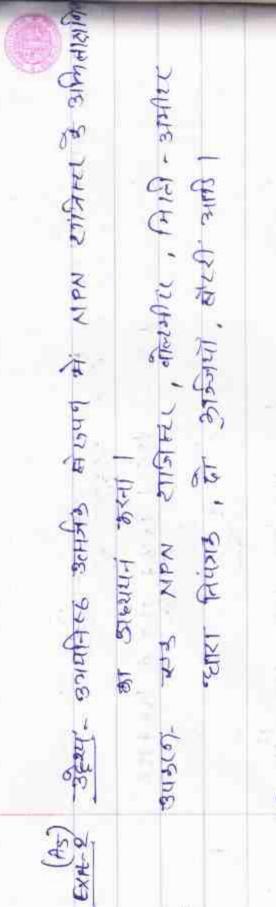
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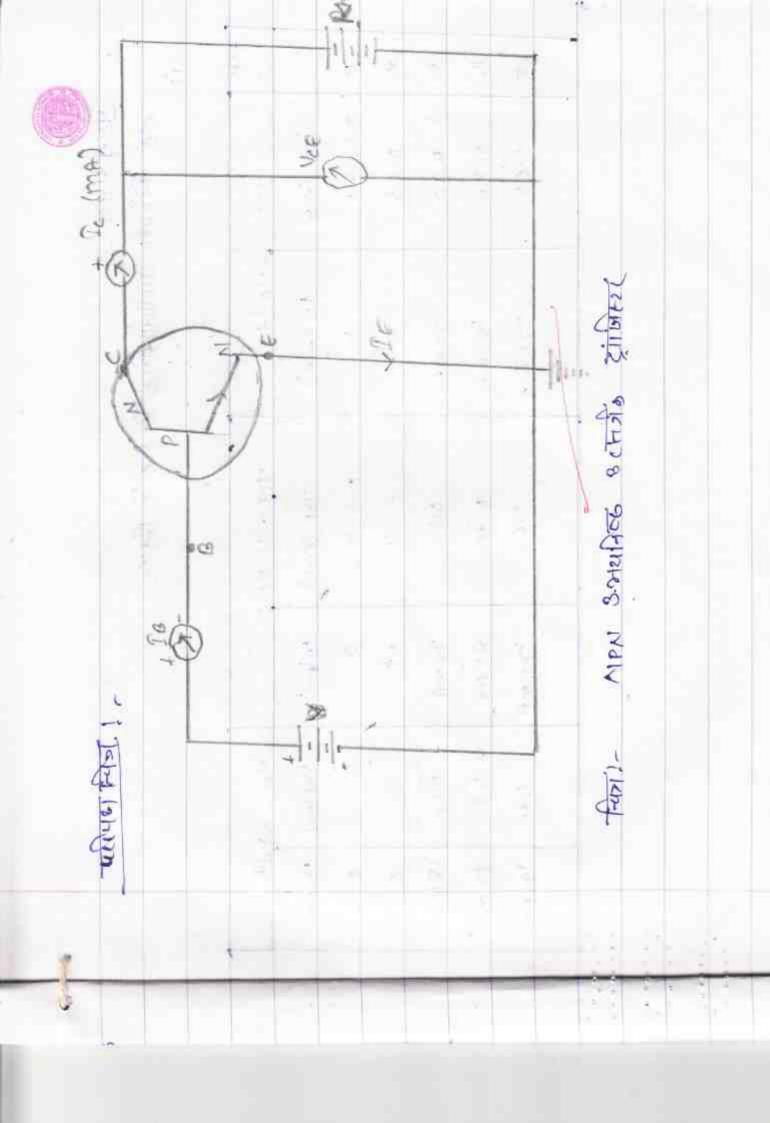
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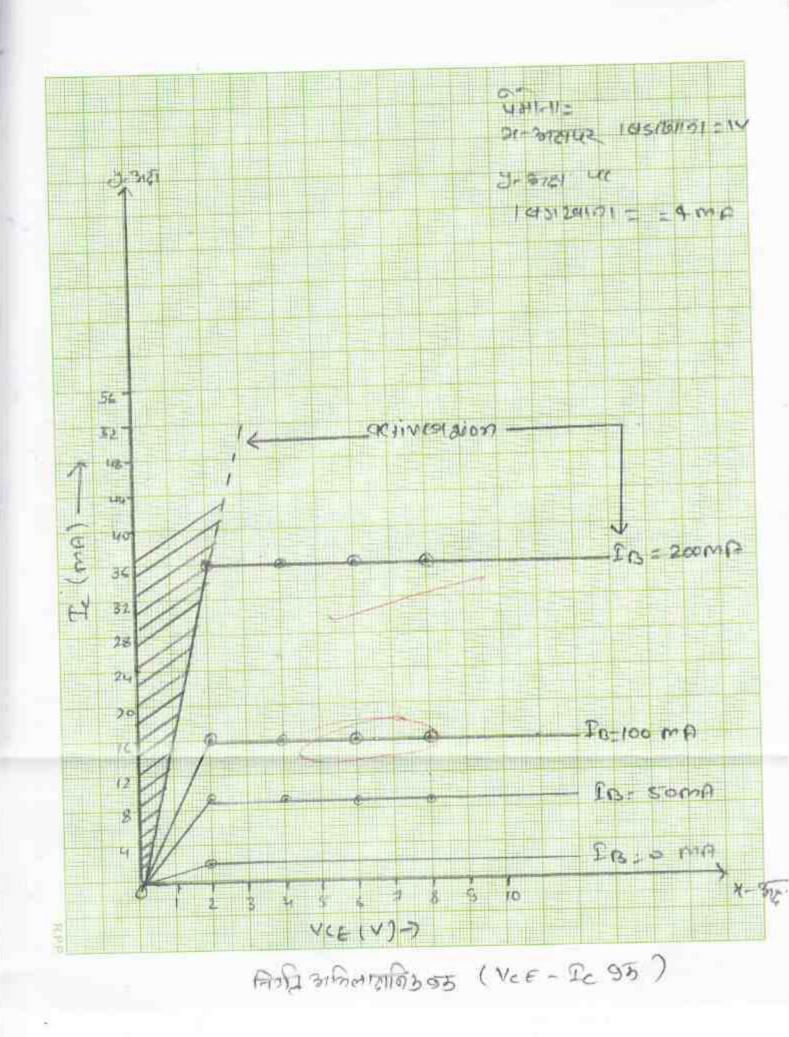
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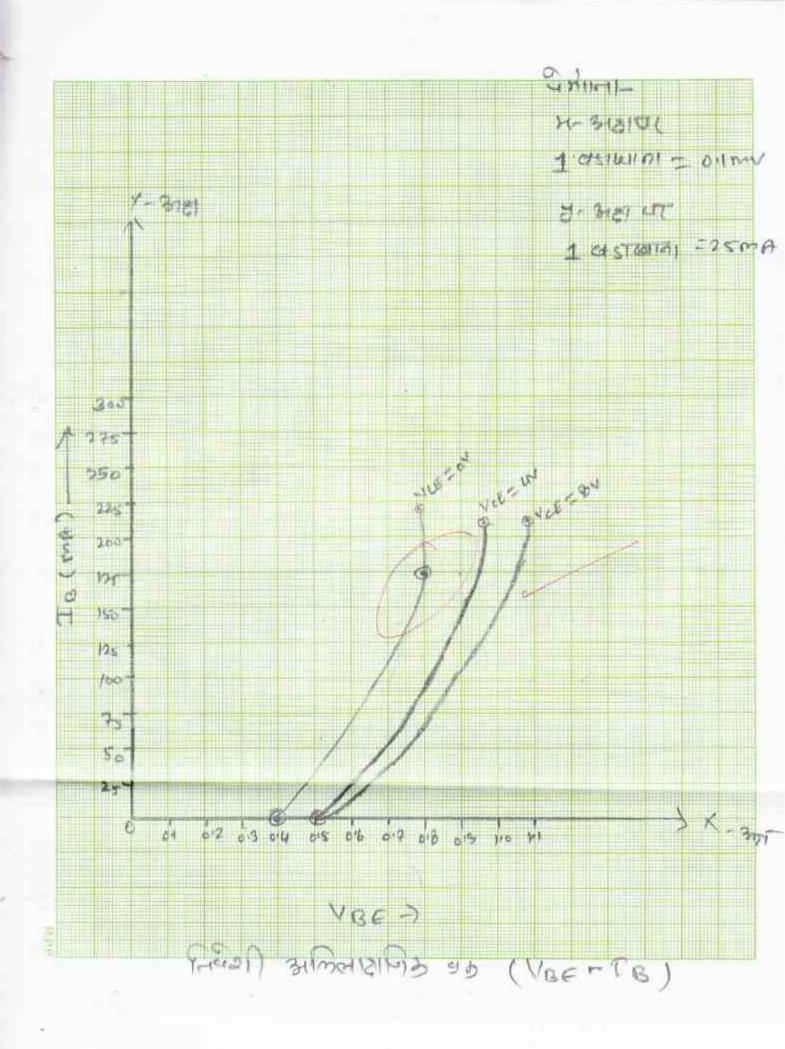
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