



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20(Even Semester)

Class and Section: B.Sc.(Med.A) - 2nd Sem.

Subject: ENGLISH

Name of the Faculty : Mr. Sushil kumar Kumar

Week	Lecture	Date	Topics
	1	16-Jan-20	Introduction to Syllabus, Scheme of Exam &
	2	17-Jan-20	Learning Objectives/Outcomes
	3	23-Jan-20	Essay 1 half complete
	4	24-Jan-20	Essay 1 complete
	5	30-Jan-20	Basics of Translation
	6	31-Jan-20	Doubt session
	7	06-Feb-20	Essay 2 half complete
	8	07-Feb-20	Essay 2 complete
	9	13-Feb-20	Essay 3 half complete
	10	14-Feb-20	Essay 3 complete
	11	20-Feb-20	UT1
	12	27-Feb-20	Precis writing
	13	28-Feb-20	Essay 4 half complete
	14	05-Mar-20	Essay 4 complete
	15	06-Mar-20	Doubt session
	16	12-Mar-20	Translation from English to Hindi
	17	13-Mar-20	Essay 5 half complete
	18	19-Mar-20	Essay 5 complete
	19	20-Mar-20	Doubt session
	20	26-Mar-20	UT2
	21	27-Mar-20	
	22	30-Mar-20	Essay 6 half complete
	23	31-Mar-20	Essay 6 complete
	24	03-Apr-20	Letter writing
	25	09-Apr-20	Revision
	26	10-Apr-20	Revision
	27	16-Apr-20	Revision
	28	17-Apr-20	Revision
	20th - 24th April 20		Final Sessional Test



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Med. 2nd Sem. A & B

Subject: Diversity of Archegoniates

Name of the Faculty : Varsha

Week	Lecture	Date	Topics
1	2	16/01/20 to 24/01/20	Bryophytes- General Character, Classification
	5		Alteration of Generation
2	5	27/01/20 to 31/01/20	Bryophytes- Evolution of Sporophytes and Economic Importance
3	3	03/02/20 to 07/02/20	Bryophytes -Structure and function of Marchantia
	2		
4	3	10/02/20 to 14/02/20	Structure and Function of Anthoceros
	2		
5	3	17/02/20 to 21/02/20	Structure and Function of Funaria
	2		
6	17/02/20 to 21/02/20		1st Class Test
7	3	24/02/20 to 28/02/20	Pteridophytes- General Characters
	2		Pteridophytes Classification
8	2	02/03/20 to 06/03/20	Alteration of Generation
	3		Heterospory
9	2	09/03/20 to 13/03/20	Apospory, Apogamy
	3		
10	3	16/03/20 to 20/03/20	Economic Importance of Pteridophytes
	2		
11	3	23/03/20 to 27/03/20	General account of Stellar Evolution
	2		
12	23/03/20 to 27/03/20		2nd Class Test
13	3	30/03/20 to 03/04/20	Structure and reproduction of Rhynia
	2		Selaginella
14	3	06/04/20 to 10/04/20	Equisetum
	2		Pteris.
15	5	13/04/20 to 17/04/20	Revision



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Med. 2nd Sem. A & B

Subject: Genetics

Name of the Faculty : Sakshi

Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Introduction to Genetics and its various terminologies, Objectives of study, Genetic Material and experiments related to its discovery.
2	5	27/01/20 to 31/01/20	DNA as a genetic material, Structure and replication
3	5	03/02/20 to 07/02/20	DNA -Protein Interaction, The Nucleosome Model
4	5	10/02/20 to 14/02/20	Genetic code, Satellite and Repetitive DNA, Pre-Mendelian theories
5	5	17/02/20 to 21/02/20	Genetic Inheritance, Mendels work and results.
6	17/02/20 to 21/02/20		1st Class Test
7	5	24/02/20 to 28/02/20	Mendels Laws; Law of Segregation and Law of Independent Assortment. Law of Dominance, Monohybrid cross.
8	5	02/03/20 to 06/03/20	Dihybrid cross, Linkage Analysis: Allelic interactions.
9	5	09/03/20 to 13/03/20	Non Allelic Interactions, Presence and function of Mitochondrial DNA.
10	5	16/03/20 to 20/03/20	Presence and functions of Plastid DNA : Plasmids
11	5	23/03/20 to 27/03/20	Genetic variations: Mutations- Spontaneous and Induced Mutations, transposable genetic element.
12	23/03/20 to 27/03/20		2nd Class Test
13	5	30/03/20 to 03/04/20	DNA damage and repair, modern concept of gene: RNA: Ribosomes.
14	5	06/04/20 to 10/04/20	Transfer of genetic information-transcription and translation.
15	5	13/04/20 to 17/04/20	Structure of proteins, Regulation of gene in prokaryotes and eukaryotes. Revision.



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Med. 2nd Sem. A & B

Subject: Diversity of Archegoniates

Name of the Faculty : Varsha

Week	Lecture	Date	Topics
1	2	16/01/20 to 24/01/20	Bryophytes- General Character, Classification
	5		Alteration of Generation
2	5	27/01/20 to 31/01/20	Bryophytes- Evolution of Sporophytes and Economic Importance
3	3	03/02/20 to 07/02/20	Bryophytes -Structure and function of Marchantia
	2		
4	3	10/02/20 to 14/02/20	Structure and Function of Anthoceros
	2		
5	3	17/02/20 to 21/02/20	Structure and Function of Funaria
	2		
6	17/02/20 to 21/02/20		1st Class Test
7	3	24/02/20 to 28/02/20	Pteridophytes- General Characters
	2		Pteridophytes Classification
8	2	02/03/20 to 06/03/20	Alteration of Generation
	3		Heterospory
9	2	09/03/20 to 13/03/20	Apospory, Apogamy
	3		
10	3	16/03/20 to 20/03/20	Economic Importance of Pteridophytes
	2		
11	3	23/03/20 to 27/03/20	General account of Stellar Evolution
	2		
12	23/03/20 to 27/03/20		2nd Class Test
13	3	30/03/20 to 03/04/20	Structure and reproduction of Rhynia
	2		Selaginella
14	3	06/04/20 to 10/04/20	Equisetum
	2		Pteris.
15	5	13/04/20 to 17/04/20	Revision



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Med. 2nd Sem. A & B

Subject: Life and diversity of Annelida to Hemichordata

Name of the Faculty : Vishnu Saini

Week	Lecture	Date	Topics
1	2	16/01/20 to 24/01/20	General characters of phylum Annelida
	5		Classification upto order level, economic importance
2	5	27/01/20 to 31/01/20	Type study of Pheritima(Earthworm)
3	3	03/02/20 to 07/02/20	Metamerism in Annelida
	2		Trochophore larva- affinities
4	3	10/02/20 to 14/02/20	Trochophore larva- evolutionary significance
	2		General characters of phylum Arthropoda
5	3	17/02/20 to 21/02/20	Classification upto order level
	2		economic importance of arthropoda
6	17/02/20 to 21/02/20		1st Class Test
7	3	24/02/20 to 28/02/20	Type study of Periplaneta
	2		Periplaneta
8	2	02/03/20 to 06/03/20	General characters of phylum Mollusca
	3		Classification and economic importance
9	2	09/03/20 to 13/03/20	Torsion and detorsion in gastropoda
	3		Type study- Pila
10	3	16/03/20 to 20/03/20	respiration and foot in mollusca
	2		General characters and classification of Echinodermata
11	3	23/03/20 to 27/03/20	Biodiversity and economic importance
	2		Type study Asterias(Sea Star)
12	23/03/20 to 27/03/20		2nd Class Test
13	3	30/03/20 to 03/04/20	Echinoderm larvae
	2		Aristotle's Lantern
14	3	06/04/20 to 10/04/20	General characters of hemichordata
	2		Type study Balanoglossus
15	5	13/04/20 to 17/04/20	Revision
16	20/04/20 to 24/04/20		Final Sessional Test



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: B.Sc. Med. 2nd Sem. A & B

Subject: Diversity of Archegoniates

Name of the Faculty : Varsha

Week	Lecture	Date	Topics
1	2	16/01/20 to 24/01/20	Bryophytes- General Character, Classification
	5		Alteration of Generation
2	5	27/01/20 to 31/01/20	Bryophytes- Evolution of Sporophytes and Economic Importance
3	3	03/02/20 to 07/02/20	Bryophytes -Structure and function of Marchantia
	2		
4	3	10/02/20 to 14/02/20	Structure and Function of Anthoceros
	2		
5	3	17/02/20 to 21/02/20	Structure and Function of Funaria
	2		
6	17/02/20 to 21/02/20		1st Class Test
7	3	24/02/20 to 28/02/20	Pteridophytes- General Characters
	2		Pteridophytes Classification
8	2	02/03/20 to 06/03/20	Alteration of Generation
	3		Heterospory
9	2	09/03/20 to 13/03/20	Apospory, Apogamy
	3		
10	3	16/03/20 to 20/03/20	Economic Importance of Pteridophytes
	2		
11	3	23/03/20 to 27/03/20	General account of Stellar Evolution
	2		
12	23/03/20 to 27/03/20		2nd Class Test
13	3	30/03/20 to 03/04/20	Structure and reproduction of Rhynia
	2		Selaginella
14	3	06/04/20 to 10/04/20	Equisetum
	2		Pteris.
15	5	13/04/20 to 17/04/20	Revision

RPS Degree College, Balana (Mahendergarh)			
Lesson Plan			
2020-21 (Even Semester)			
Class and Section: B.Sc 2nd Sem. A and B			
Subject: Genetics [1.2]			
Name of the Faculty : Neha Saini			
Week	Lecture	Date	Topics
1	7	16/01/20 to 24/01/20	Elements of heredity and variation, varieties of gene interaction, linkage and recombination
2	5	27/01/20 to 31/01/20	Coupling and repulsion hypothesis, crossing over and chiasma formation, gene mapping
3	5	03/02/20 to 07/02/20	Sex determination and its mechanism-male and female heterozygous system, geneic balance system ,role of Y-chromosome
4	5	10/02/20 to 14/02/20	male haploidy ,cytoplasmic and environmental factors ,role of hormones in sex determination, Haemophilia
5	5	17/02/20 to 21/02/20	colour -blindness, eye colour in drosophila , Non- Disjunction of sex -chromosome in drosophila ,Sex- linked and sex influenced inheritance
6	1st Class Test		
7	5	24/02/20 to 28/02/20	Extra chromosomes- Kappa particles ,Shell coiling in snails, Milk factor in mice
8	5	02/03/20 to 06/03/20	Multiple alleles : Eye colour in drosophila, A,B,O Blood group in man ,Human Karyotype, Chromosomes abnormalities involving autosomes
9	5	09/03/20 to 13/03/20	Sex chromosomes abnormalities, monozygotic and dizygotic twins, Alkeptonuria ,phenylketonuria , albinism
10	2nd Class Test		
11	5	16/03/20 to 20/03/20	Sickel -Cell anaemia , Nature and function og genetic material , Structure and types of nucleic acid
12	5	23/03/20 to 27/03/20	Protein synthesis, Spontaneous and induced mutations; gene mutation ; chemical basis of mutation ;transition, transversion
13	5	06/04/20 to 10/04/20	Structural chromosomal aberrations, Numerical aberrations
14	5	30/03/20 to 03/04/20	Applied genetics: Eugenics ,Euthenics and euphenics; genetic counseling
15	5	13/04/20 to 17/04/20	Pre-natal diagnostics ,DNA- Finger printing ,transgenic animals
16	Final Sessional Test		





RPS Degree College, Balana (Mahendergarh)

Lesson Plan
2019-20 (Even Semester)

Class and Section: Med A-2nd semester

Subject: Basic Computer Education

Name of the Faculty : Ms. Meenakshi

Week	Lecture	Date	Topics
1	1	16-Jan-20	Computer Definition, characteristics, Applications, Components of computer system, Input/Output Devices
2	1	23-Jan-20	Revision
3	1	30-Jan-20	Concept of memory, magnetic and optical storage devices.
4	1	06-Feb-20	Definition & functions of Windows operating system , Basic Components of windows, exploring computer , icons.
5	1	13-Feb-20	Taskbar, desktop, managing files and folders, Control panel- display properties (Assignment given)
6	1		Class Test 1
7	1	27-Feb-20	Add/remove software and hardware , setting date and time , screen saver and appearance
8	1	05-Mar-20	Introduction to word processing , menus, creating , editing and formatting document
9	1	12-Mar-20	spell checking, printing, views, tables, wordart, mail merge, macros
10	1	19-Mar-20	Computer communication internet and its application, surfing the internet using webbrowser
11	1		Class Test2
12	1	09-Apr-20	Creating email id, viewing an email, sending an e-mail to a single and multiple users, sending a file as an attachment
13	1	16-Apr-20	Revision
14	1	23-Apr-20	Revision
15			Final Sessional Test
16			



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RPS Degree College, Balana (Mahendergarh)

2019-20 (Even

Semester)

Class and Section: B.Sc.(MED) 2nd A

Subject: Organic chemistry

Name of the Faculty : Hitesh Yadav

Week	Lecture	Date	Topics
1	1	20-Jan-20	.Alkenes Nomenclature of alkenes,
	2	22-Jan-20	mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides
2	3	27-Jan-20	mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides
	4	29-Jan-20	Chemical reactions of alkenes mechanisms involved in hydrogenation
3	5	03-Feb-20	electrophilic and free radical additions, Markownikoff's rule, hydroboration-oxidation
	6	05-Feb-20	oxymercuration reduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO ₄
4	7	10-Feb-20	Arenes and Aromaticity Nomenclature of benzene derivatives: Aromatic nucleus and side chain.
	8	12-Feb-20	Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti - aromatic and non - aromatic compounds
5	9	17-Feb-20	Aromatic electrophilic substitution general pattern of the mechanism, mechanism of nitration, halogenation, sulphonation
	10	19-Feb-20	Friedel-Crafts reaction. Energy profile diagrams. Activating, deactivating substituents and orientation
6	11,12		1st Class Test
7	13	02-Mar-20	Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism)
	14	04-Mar-20	Diels-Alder reaction, Nomenclature, structure and bonding in alkynes
8	15	09-Mar-20	Methods of formation. Chemical reactions of alkynes, acidity of alkynes
9	17	16-Mar-20	Nomenclature and classes of alkyl halides
	18	18-Mar-20	methods of formation, chemical reactions.
10	19,20		2nd Class Test
11	21	30-Mar-20	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides
	22	01-Apr-20	SN ₂ and SN ₁ reactions with energy profile diagrams
12	23	06-Apr-20	Methods of formation and reactions of aryl halides
	24	08-Apr-20	The addition-elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions
13	25	13-Apr-20	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.
	26	15-Apr-20	Revision of section A
14	Final Sessional Test		
15			Special Class
			Special Class
16	Final Exam		
17			



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20(Even Semester)

Class and Section: B.Sc.(Med B) - 2nd Sem.

Subject: ENGLISH

Name of the Faculty : Mr. Sushil Kumar

Week	Lecture	Date	Topics
2	1	20-Jan-20	Introduction to Syllabus, Scheme of Exam & Learning Objectives/Outcomes
	2	21-Jan-20	Test to Check the Learning Level of the Students
3	3	27-Jan-20	Essay 1 half complete
	4	28-Jan-20	Essay 1 complete
4	5	03-Feb-20	Essay 2 complete
	6	04-Feb-20	
5	7	10-Feb-20	Essay 3 half complete
	8	11-Feb-20	Essay 3 complete
6 1st Class Test 17- 20th Feb. 2020	9	17-Feb-20	Doubt session
	10	18-Feb-20	UT1
7	11	24-Feb-20	Translation from English to Hindi
	12	25-Feb-20	Testing students understanding
8	13	02-Mar-20	Essay 4 half complete
	14	03-Mar-20	Essay 4 complete
	15	05-Mar-20	Doubt session
9	16	09-Mar-20	Precis writing
10	17	16-Mar-20	Essay 5 half complete
	18	17-Mar-20	
11 2nd Class Test 23-27 March 2020	19	23-Mar-20	Essay 5 complete
	20	24-Mar-20	UT2
12	21	30-Mar-20	Essay 6 half complete
	22	31-Mar-20	Essay 6 complete
13	23	06-Apr-20	Letter writing
	24	07-Apr-20	Revision
14	25	13-Apr-20	Revision
	26	14-Apr-20	Revision
15	20th - 24th April 20		Final Sessional Test



RPS Degree College, Balana (Mahendergarh)

Lesson Plan

2019-20 (Even Semester)

Class and Section: Medical B- 2nd semester

Subject: Basic Computer Education

Name of the Faculty : Ms. Meenakshi

Week	Lecture	Date	Topics
1	1	22-Jan-20	Computer Definition, characteristics, Applications, Components of computer system, Input/Output Devices
2	1	29-Jan-20	Revision of class1
3	1	05-Feb-20	Concept of memory, magnetic and optical storage devices.
4	1	12-Feb-20	Definition & functions of Windows operating system , Basic Components of windows, exploring computer , icons.
5	1		class Test 1
6	1	26-Feb-20	Taskbar, desktop, managing files and folders, Control panel- display properties
7	1	04-Mar-20	Add/remove software and hardware , setting date and time , screen saver and appearance
8	1	11-Mar-20	Introduction to word processing , menus, creating , editing and formatting document
9	1	18-Mar-20	spell checking, printing, views, tables, wordart, mail merge, macros
10	1		class Test 2
11	1	01-Apr-20	Computer communication internet and its application, surfing the internet using webbrowser
12	1	08-Apr-20	Creating email id, viewing an email, sending an e-mail to a single and multiple users, sending a file as an attachment
13	1	15-Apr-20	Revision
14	1	22-Apr-20	Revision
15			Final Sessional Test
16			



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RPS Degree College, Balana (Mahendergarh)

2019-20 (Even

Semester)

Class and Section: B.Sc.(MED) 2nd B

Subject: Organic chemistry

Name of the Faculty : Hitesh Yadav

Week	Lecture	Date	Topics
1	1	20-Jan-20	.Alkenes Nomenclature of alkenes,
	2	21-Jan-20	mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides
2	3	27-Jan-20	mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides
	4	28-Jan-20	Chemical reactions of alkenes mechanisms involved in hydrogenation
3	5	03-Feb-20	electrophilic and free radical additions, Markownikoff's rule, hydroboration-oxidation
	6	04-Feb-20	oxymercuration-reduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO ₄
4	7	10-Feb-20	Arenes and Aromaticity Nomenclature of benzene derivatives: Aromatic nucleus and side chain.
	8	11-Feb-20	Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti - aromatic and non - aromatic compounds
5	9	17-Feb-20	Aromatic electrophilic substitution general pattern of the mechanism, mechanism of nitration, halogenation, sulphonation
	10	18-Feb-20	Friedel-Crafts reaction. Energy profile diagrams. Activating, deactivating substituents and orientation
6	11,12		1st Class Test
7	13	02-Mar-20	Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism)
	14	03-Mar-20	Diels-Alder reaction, Nomenclature, structure and bonding in alkynes
8	15	09-Mar-20	Methods of formation. Chemical reactions of alkynes, acidity of alkynes
9	17	16-Mar-20	Nomenclature and classes of alkyl halides
	18	17-Mar-20	methods of formation, chemical reactions.
10	19,20		2nd Class Test
11	21	30-Mar-20	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides
	22	31-Mar-20	SN ₂ and SN ₁ reactions with energy profile diagrams
12	23	06-Apr-20	Methods of formation and reactions of aryl halides
	24	07-Apr-20	The addition-elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions
13	25	13-Apr-20	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.
	26	14-Apr-20	Revision of section A
14	Final Sessional Test		
15			Special Class
			Special Class
16	Final Exam		
17			