

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: B.sc 1st year medical

Semester:2nd

Subject: Botany (Genetics)

Session:2021-2022

Lectures	Topic
1	Unit-1:- genetic materials DNA introduction
2	DNA structure
3	Replication
4	DNA-protein interaction
5	The nucleosome model
6	Genetic code
7	Satellite and repetitive DNA
8	Revision of unit I
9	Unit-2:- Genetic inheritance:- mendelism, law of dominance
10	Law of segregation
11	Law of independent assortment
12	Linkage analysis
13	Allelic interaction
14	Non- allelic interaction
15	Revision of unit II
16	Unit-3:- extranuclear inheritance- presence and function of mitochondrial DNA
17	Plastid DNA

18	Plasmids
19	Genetic variation:- spontaneous mutation
20	Induced mutation
21	Transposable Genetic elements
22	DNA damage
23	DNA repair
24	Revision of unit III
25	Unit-4:- gene expression- modern concept of gene
26	RNA and its types
27	Ribosome
28	Transcription
29	Translation
30	Structure of proteins
31	Regulation of gene expression in prokaryotes
32	Regulation of gene expression in eukaryotes
33	Revision of unit IV