23	3P215 (Pages: 2) Name:	
	Reg.No.	:
	SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2	
	(CBCSS - PG)	
	(Regular/Supplementary/Improvement)	
	CC19P ZOL2 C05 - MOLECULAR BIOLOGY AND CYTOGENET	FICS
	(Zoology)	
Т:	(2019 Admission onwards)	· 20 W · 1
11m	me : 3 Hours Max	imum: 30 Weightage
	Part-A	
	Answer any <i>four</i> questions. Each question carries 2 weightage.	
1.	. Explain enzymology of DNA replication	
2.	. Explain transcription activators	
3.	. Explain biogenesis of ribosome in eukaryotes	
4.	. Define miRNA	
5.	. Define transposones in Maize	
6.	. Explain the strucuture of prokaryotic chromosome.	
7.	. Explian the mapping of genes through interrupted mating technique.	
	(4	$4 \times 2 = 8$ Weightage)
	Part-B	
	Answer any <i>four</i> questions. Each question carries 3 weightage.	
8.	. Explain the mode of action of any four DNA replication inhibitors.	
9.	. Describe the role of enzymes in safeguard systems of DNA.	
10.	. Give a brief account of the characteristics of genetic code.	
11.	. Compare simple and compex multigene family.	
12.	. Describe Mu phages.	
13.	. Explain about the role of Rec A protein in genetic recombination.	

14. Describe tumerogenesis and explain the types of cancer growth.

 $(4 \times 3 = 12 \text{ Weightage})$

Part-C

Answer any two questions. Each question carries 5 weightage.

- 15. Describe protein folding and biochemical modifications on Post -translation.
- 16. Explain about Eukaryotic genome.
- 17. Discuss the general aspects of Cancer.
- 18. Give a detailed account of various abnormalities of chromosome structure.

 $(2 \times 5 = 10 \text{ Weightage})$
