

Q. No.	SECTION B Answers in about 50 words	(10 x 2= 20)	CO	KL
11	Types of DNA		CO3	K3
12	Crossing over		CO4	K4
13	Chloroplast genome		CO3	K3
14	Prions		CO4	K4
15	Okazaki fragments		CO3	K3
16	RNA editing		CO4	K4
17	Ribosomes		CO3	K3
18	Gene silencing		CO4	K4
19	Signaling molecules		CO3	K3
20	G-protein coupled receptors		CO4	K4
Q. No.	SECTION C Answer in about 600 words - Internal choice	(4 x 10= 40)	CO	KL
21	a) Explain the types and organisation of chromosomes. OR b) Illustrate the stages of mitosis and meiosis.		CO4	K4
22	a) Discuss the significance of bacterial genetics. OR b) Brief the mechanism of DNA replication in prokaryotes.		CO5	K5
23	a) Give a detailed account on operons with examples. OR b) Describe the mRNA transcription in brief.		CO4	K4
24	a) Write about genetic basis of cancer. OR b) Discuss the post translational modifications.		CO5	K5
Q. No.	SECTION D Answer any TWO questions in about 1200 words	(2x 15=30)	CO	KL
25	Elaborate the types of transposons and its mechanism of action.		CO5	K6
26	Comment on the following: i) DNA methylation ii) Viral genome iii) Histone modification		CO5	K6
27	Explain the translational regulation in eukaryotes.		CO5	K6
28	Discuss the oncogenesis and immunotherapy in detail.		CO5	K6
