



**SECTION - B**Answer **ALL** Questions**ALL** Questions Carry Equal Marks

11 a	Distinguish between positive and negative super coiling of DNA.	K3	CO 3
(OR)			
11 b	Discuss the types of plasmids.	K5	CO 5
12 a	State the role of DNA polymerases in replication.		
(OR)			
12 b	Describe the role of SS binding proteins in DNA replication.	K3	CO 3
13 a	Explain the major components of transcriptional apparatus.		
(OR)			
13 b	How does <i>lac</i> operon regulate gene expression?	K2	CO 2
14 a	Enlist the types and structure of RNA.		
(OR)			
14 b	Mention the characteristics of genetic code.	K3	CO 3
15 a	Comment on base pair substitution.		
(OR)			
15 b	How is Holliday junction generated during replication?		

**SECTION - C**

(3 x 10 = 30)

Answer any **THREE** Questions**ALL** Questions Carry Equal Marks

16	Summarize different forms of DNA.	K4	CO 5
17	Analyze the mechanism of regulation of DNA replication.	K4	CO 4
18	Describe splicing mechanism in eukaryotes.	K4	CO 3
19	Explain the post translational modifications in eukaryotes.	K4	CO 2
20	Elucidate DNA repair mechanism.	K4	CO 3

**Z-Z-Z END**