	[Time: 2½ Hours]	[ Marks:60]
	Please check whether you have got the right question paper.  N.B:  1. All questions are compulsory.  2. Draw neat and labelled diagrams wherever necessary.  3. Figures to the right indicate full marks.	
1.	Discuss the mechanism of replication of DNA in prokaryotes.	12
	OR	
1.	Describe in brief  i) Structure of nucleosome  ii) Holliday model	12
2.	With the help of suitable diagram, explain the structure of tRNA. Add a note on mRNA.	12
	OR	
2.	Explain in brief - i) Ribosomes ii) Transcription factors in eukaryotes	12
3.	"Spliceosome plays an important role in pre-mRNA splicing". Comment.  OR	12
3.	Write notes on –  i) Capping  ii) Polyadenylation	12
4.	Describe the structure of a mature protein.  OR	12
4.	Discuss the following-	12
	<ul><li>i) Properties of genetic code</li><li>ii) Initiation of translation in prokaryotes</li></ul>	
5.	<ul> <li>Write short notes on any three of the following-</li> <li>a) Okazaki fragments</li> <li>b) Initiation of replication in eukaryotes</li> <li>c) Self splicing introns</li> <li>d) Termination of transcription</li> <li>e) Initiation of translation in eukaryotes</li> <li>f) α - helix</li> </ul>	12

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