	$(2^{1}/_{2} \text{Hours})$ Marks: 60	
NB	 (1) All questions are compulsory. (2) Figures to the right indicate full marks. (3) Draw neat labelled diagrams wherever necessary. 	
1.	Discuss the molecular details of DNA replication in eukaryotes. OR	12
	Give an account of Holliday model of DNA recombination.	12
2.	Explain the mechanism of transcription of protein coding genes - in prokaryotes. OR	12
	What are different classes of RNA. Add a note on the genes that code for them.	12
3.	Discuss the role of snRNA in spliceosome. Add a note on the types of snRNA. OR	12
	Briefly describe: (a) Self splicing (b) RNA localization	12
4.	Give a detailed account of protein structure. OR	12
	Describe the mechanism of translation of genetic message.	12
5.	Write a short notes on any three of the following: (a) Nucleosome (b) Telomerase (c) RNA polymerase (d) Non coding RNAs (e) Ribozyme (f) Chaperons	12