4. a) What is transcription? Discuss the mechanism of transcription in prokaryotes

OR

b) Discuss the process of RNA splicing

5. a) Give an account on Genetic code

OR

- b) Explain protein folding and protein targeting
- 6. a) Explain the mechanism of gene regulation

OR

b) Discuss the application of RNAi technology in gene silencing

[29/II Y/211]

[SPDBT-201] M.Sc. DEGREE EXAMINATION

Biotechnology II YEAR

MOLECULAR BIOLOGY

(Effective from the admitted batch 2009-10)

Time: 3 Hou	rs Max.Marks: 70
Instructions:	All parts of the unit must be answered in one place only. Figures in the right hand margin indicate marks allotted.

SECTION-A

1.	Ar	nswer any Four of the following:	(4x5=20)		
	b) c) d)	Spilt Genes RNA polymerases Promoters Wobble hypothesis Enhancer proteins			
	SECTION-B				
	A	nswer all questions:	(5x10=50)		
2.	a) Give an account on organization of genetic material in euka		n eukaryotes		
OR					
	b)	Write about the special types of chromosomes			
3.	a)	Describe Messelson-Stahl experiment			
OR					
	b)	Discuss the types of DNA repair mechanisms			

[Aug-11]