Molecular Genetics. SE/W/BT/CBGS/MG.

[Total Marks: 80

(3 Hours)

Note:

At As	tempt any three questions out of remaining five questions. sume suitable data wherever necessary.	
Wr	ite short notes on: (Any four)	20
a.	Aneuploidy	
b.	Characteristics of genetic code	
c.	Denaturation of DNA	
d.	DNA repair mechanisms	
e.	Alternate splicing	
Ext	plain lac operon model in detail. What is the effect of presence of plucase and	20
		20
a.	Explain Mendel's laws with the help of appropriate examples.	12
	AND THE RESIDENCE OF THE PARTY	8
		10
b.	Explain the process of transcription in prokaryotes.	10
a.	Explain the DNA replication process in prokaryotes.	10
b.	Write a note on initiation of translation in prokaryotes.	10
a.	Write a note on post-translational modifications in proteins.	10
	No.	5
		5
	At As Fig Wr a. b. c. d. e. Explact a. b. a. b. a. b.	 b. Characteristics of genetic code c. Denaturation of DNA d. DNA repair mechanisms e. Alternate splicing Explain lac operon model in detail. What is the effect of presence of glucosc and lactose in the medium on its regulation? a. Explain Mendel's laws with the help of appropriate examples. b. Write a note on types of RNA. a. Explain Watson & Crick DNA model with the help of a neat, labeled diagram. b. Explain the process of transcription in prokaryotes. a. Explain the DNA replication process in prokaryotes. b. Write a note on initiation of translation in prokaryotes. a. Write a note on post-translational modifications in proteins.