Molecular Branch 2-30-5-30 Molecular Branch 22-30-5-30 QP Code: 12428

(3 Hours)

[Total Marks: 80

N	.B. :	(1) Question No. 1 is compulsory.	
		(2) Answer any three of remaining five questions.	4
1.	(a) (b)	Explain replication mechanism in procaryotes with a neat diagram. Narrate the experiment to prove DNA as a genetic material.	10 10
2.	(a)	Explain the transcription mechanism in eucaryotes.	10
	(b)	Describe processing of r-DNA.	10
3.	(a)	Write a short note on denaturation of DNA.	6
	(b)	Explain the structure of t-RNA.	7
	(c)	Write a short note on genetic code and its properties.	7
4.	(a)	Explain the law of segregation and the law of Independent assortment.	10
•	(b)	What is linkage? Explain the types of linkage by drawing suitable crosses.	10
5.	(a)	Explain the mechanism of meiotic crossing over with a neat diagram.	10
	(b) ·	Explain disorders occurring at chromosomal level.	10
6.	(a)	Write a short note on enzymes and accessory proteins involved in DNA replication.	10
	(b)	Write a note on alternate splicing.	10

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