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21BOT3C10L

Sl. No.

# M.Sc. III Semester Degree Examination, April/May - 2024 BOTANY

## DSC - 10 Molecular Biology

### (NEP)

Time : 3 Hours Maximum Ma			:ks : 70	
Not	<b>Note :</b> Answer <b>any five</b> of the following questions with question <b>No. 1</b> is <b>Compulsory</b> . Each question carries <b>equal</b> marks.			
1.	-	lain in detail about the fine structure of prokaryotic and eukaryotic gene cture.	14	
2.	(A) (B)	Describe the regulation of lactose metabolism in E.coli. Enumerate the Rho-dependent and Rho-independent methods of transcription in prokaryotes.	7 7	
3.	Give	a detailed account on Ac-Ds elements in Maize and P-elements in Drosophila.	14	
4.	Enu	merate the different mechanisms of natural and acquired immunity.	14	
5.	Des	cribe the various mechanisms of chemical mutagens.	14	
6.	Give (A) (B)	a brief account on : Mitochondrial genetic system Ribozymes	7 7	
7.	Writ (A) (B)	e short notes on : Composite and non composite transposons Tumour suppressor genes	7 7	
8.	Give (A) (B)	a general account on : Point mutation mRNA structure	7 7	

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