Roll No	oll No Total No. of Printed Pages : 3		Code No. : B02/104		
			OR		
Code No. : B02/104				Describe chromosome struct packaging of DNA.	ture and
Second Semester Online Examination, May-June, 2022			UNIT-II		
M. Sc. BOTANY			•		2
Paper I			2. (A)	What are haploids?	2
GENETICS			(B)	What are polyploids?	2
Time: Three Hours] [Maximum Marks: 80			(C)	Write note on transduction in bac	cteria.
	and B of each question in each unit consisus of the consisus of the consistering the consistering and the consistering the consistering and the consistering the consistering and			(word limit 20	00-250) 4
one or two sentences. Part C 'Short answer type' and D 'Long answer type' of each question should be answered			OR		
within the word limit mentioned. UNIT-I			Write note on origin and production of autopolyploids.		
1. (A)	What is telomere?	2	(D)	Write detail note on duplica deficiency types of chro	mosomal
(B)	What is polytene chromosome?	2		alternation. (word limit 400	0-450) 12
(C) Write note on Mitochondrial DNA.		۷.	OR		
	(word limit 200	0-250) 4		Describe aneuploidy?	
OR			UNIT-III		
	Write note on Ribosomal RNA ge	nes.	3. (A)	What is linkage group?	2
(D)	What are sex chromosomes? Describe		(B)	Write role of Rec-A enzymes.	2
· /	sex determination in plants.		(C)	Write note on Rec-B enzymes.	
	(word limit 400-	450) 12		(word limit 2)	00-250) 4

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Code No. : B02/104						
OR						
	Write note on Rec-D enzymes.					
(D)	Describe molecular mechanism of genetic recombination. (word limit 400-450) 12					
OR						
	Write detail note on types and mechanism of linkage.					
UNIT-IV						
4. (A)	What are transposomes? 2					
(B)	What are alleles? 2					
(C)	Write note on transposable elements in prokaryotes. (word limit 200-250) 4					
OR						
	Write note on DNA damages.					
(D)	Describe inherited human diseases.					
	(word limit 400-450) 12					
OR						

Write detail note on mendelian laws.