Sl. No.

No. of Printed Pages: 1



21BTH1C2L

M.Sc. I Semester Degree Examination, April/May - 2023 BIOTECHNOLOGY

Advanced Genetics

Time: 3 Hours Maximum				Marks : 70	
Notes :		(i) (ii)	Answer any five of the following questions with Question No. 1 (Q.1) compulso each question carries equal marks. Draw neat diagrams wherever necessary.		
1.	Exp	lain i	in brief about Prokaryotic genome organization.	14	
2.	Exp	lain	the genetic disorder related to the metabolism of phenylalanine.	14	
3.	(a) (b)		at are monogenic disorders, write about cystic fibrosis. te the causes, symptoms and prevention of thalassemia.	7 7	
4.	(a) (b)	-	plain the method of gene mapping. te about autosomal linked genetic disorders.	7 7	
5.	(a) (b)		scribe the structure of composite transposons. te about mobile genetic elements.	7 7	
6.	(a) (b)		ine Pedigree and analyse the Pattern of inheritance using pedigree te a brief note on two point mapping.	7 7	
7.	(a)		te a note on psychotherapeutic counselling and its risk assessment in idelian and Multifactorial syndrome.	7	
	(b)	Exp	lain in brief about any two genetic basis of syndromes.	7	
8.	(a) (b)		natic cell fusion egration of cytogenetic	5 5	
	(c)	Mod	dels of eugenics	4	