Total No. of Printed Pages: 2

## SUBJECT CODE NO: - Y-2179 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. (PATTERN-2013) (T.Y SEM VI)

Examination April / May - 2024
Botany Paper- XIX (Genetics and Biotechnology)

700		0.77		
Lim	ie: 1:3	0 Hours]	[Ma	x. Marks:5
T D		Please check whether you ha	ve got the right question paper.	
N. B		1) Attempt all questions.	to represent the	
	0,0	2) Draw neat and well label	led diagram wherever necessary.	
	110			
Q1	What	is Epistasis? Explain in detail Duplica	te dominant epistasis with suitable	20
- II	Exam	ple.	The state of the s	
1		OR		
V	Cina.			
	Allean	in account of fine structure of gene. Extonuria.	kplain in detail phenylketonuria and	20
	Анкар	tonura.		
01	D		No. 100 Personal Property Commencer (1997)	
Q2	Descr	ibe the concept of genetic engineering	& its role in agriculture field.	20
		OR	· Allerta Andrews	
	write	shorts notes on (any four)	TAMALO	20
			T. MINITOL	
		Test cross	13/	
	b)	Genic balance theory in Drosophila	=   = 10v   2	
		Holandric gene	LIBRARY )	
		Genetic counselling		
		Properties of restriction endonuclease		
	f)	Gene cloning	AMA	
<b>Q3</b>	Multip	ole choice question.		10
	1)	Mendel proposed which of the follow	ring term for heredity units	
		a) Factor	b) Genome	
		c) Genetic particle	d) None of these	
	2)	When cross is made between offsprin	and in an of the second in the	
	2)	as	g and its one of the parents, it is know	vn
		a) Back cross	b) Test cross	
		c) Reciprocal cross	d) All of these	
		o) receiptocal cross	d) All of these	
	3) The gene interaction when one gene of mask the effect of other gene such			
	interaction called			
		a) Epistatic gene	b) Hypostatic	
		c) Both a and b	d) None of these	

4)	Genic balance theory of sex determin	ation was given by		
-	a) Bridge	b) Morgan		
	c) Mendel	d) Darwin		
5)	sex determination of a female bird is	#1 100 HT		
	a) XD	b) XX		
	c) XY	d) ZW		
6)	The chromosome responsible for the	determination of sex are called		
۷)	a) Autosome	b) Allosomes		
	c) sex chromosome	d) Both B and C		
	c) sex curomosome	dy Both B and C		
7)	Hypertrichosis is expressed in	only		
	a) Males	b) Female		
	c) Both a and b	b) Female d) None of these		
		Harl I		
8)	Process of Transfer of gene into Plants is called as			
	a) Recombinant	b) Transformation		
	c) Transduction	d) None of these		
9)	Plasmid replicates	The state of the second of the second		
,	a) Autonomously	b) with DNA		
	c) Dependently	d) None of these		
10	) The enzymes that cuts specifically red	cognition sites in the DNA is known as		
	a) Ligase	b) Enclonucleases		
	c) DNA Polymerase	d) All of these		
	No.	production and acceptable of		
	18			
	CANA D	Para galanda cacez		