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SUBJECT CODE NO:- 2080 FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. S.Y (Sem-III)

Examination March/April-2022 (To be held in June/July-2022) Zoology Paper-VIII Genetics- II

[Time: 1:53 Hours] [Max. Mark					
N.B	Please check whether you have got the right question paper. i. Attempt all questions. ii. Illustrate your answer with suitable labeled diagram.				
Q.1	Define gene. Explain the process of transcription of gene.	20			
	What is genetic disorder. Explain Down's syndrome.				
Q.2	Give an account on application of rDNA technology.	20			
	Write short note on any four of the following a) Monozygotic twins b) PKU c) Plasmid d) Colourblidress e) Bacterial transformation f) Properties of genetic code				
Q.3	Multiple choice question:	10			
	 Which of the following is also called bleeder's disease- Anaemia Polycythemia XXY chromosomes complement is found in - Down's syndrome Klinefelter's syndrome Turner's syndrome Edwards syndrome 				

3.	Sex determination in human beings is type.					
	a)	XY-XX	b) XX-XO	c) XX-XY	d) XO-XX	
4.	Inat	Inability to produce tyrosinase enzyme leads to hereditary defect.				
		Fairness			Albinism	
	c)	Pku		d)	Alkaptonuria	
5.	ferred to as					
		The gene pool	•	- C.Y.	The alletic frequency	
	c)	The genotypic f	frequency	d)	The genetic structure	
6. The codon is found in						
	a)	DNA		(b) (b)	r RNA	
	c)	t RNA		d)	m RNA	
7. Assumptions underlying Hardy-Weinberg equilibrium are					rium are	
		Organisms are			mating is random	
	c)	Population size	is infinitely larg	ge d)	All of the above	
8.	Rep	Representation of chromosomes of a species in the form of diagram is called				
	a)	Hologram	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(b)	Ideogram	
	c)	Milligram		(d)	Sensogram	
9.	What is the process of introducing vector into the viral vector known as					
	a)	Transposition		b)	Transduction	
	c)	Transformation		d)	Transfection	
10.	Elec	etro phoresis a te	chnique used in	DNA finger	printing helps to separate	
	a)	Cells for DNA		b)	DNA segments	
1200	c)	Tissues		(d)	RNA from DNA	