SUBJECT CODE NO:- 2084 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. F.Y Sem. II

Examination March/April-2022 (To Be Held In June/July-2022) Zoology Paper-V

Genetics – I

[Time	e: 1.53 Hours] [Max.Max.Max.Max.Max.Max.Max.Max.Max.Max.	irks:50]				
N.B	Please check whether you have got the right question paper. i) Attempt all questions	22224 2456				
11.15	ii) Illustrate your answer with suitable labeled diagram					
		\$) *				
Q.1	Describe in detail mendels law of independent assortment with suitable example. OR	20				
	Give an account of blood group system in man add a not on its importance	20				
Q.2	What is gene interaction? Explain any three modified medelian ratio OR	20				
	Write a short note on any four	20				
	a) Phenylketonuria (pku)					
	b) Gynandromorphc) Inhibiting factor					
	d) Albinism					
	e) Lethal gene					
	f) Kappa particles in paramecium					
Q.3	Select and write correct answer from the given alternatives in each question	10				
	1) When a single character is controlled by two or more pairs of alleles independently the					
	gene are called gene.					
	a) Triplicate b) Duplicate c) Dominant d) Recessive					
,	2) Which of the following blood group belonging to the category of universal recipient					
	a) A b) AB c) B d) O					
	3) A phenotypic ratio of 9:3:3:1 obtained in F ₂ generation is called cross. a) Trihybrid b) monohybrid c) Dihybrid d) Tetrahybrid					
	4) Hypertrichosis is common in a) India b) Shrilanka c) Both A & B d) None					
	5) A pair of gene located at corresponding positions on a pair of homologous chromosome is					
	a) Alleles b) Lethal gene c) Linked gene d) Antigen					

O)	Cytopiasmic innertiance was first described by					
	a) Correns	b) Boycott	c) Mendel	d) Sonneborn		
	u) 0011 0 115	2) 23,2300	0) 1/1011001			
				2,2,2,2,8,8,8,8,8,8		
7)	Anterior – posterior gynandromorphs is commonly in					
	a) Beetles	b) Drosophila	c) moth	d) bees		
	a) Decties	o) Brosopinia	c) mour			
				9,42,9,0,6,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9,9		
8)	Cri- du – chat syndrome was first described by					
ĺ	a) Langdon	b) Patau	c) Edward	d) Lejeune		
	a) Languon	0) I atau	c) Lawara	S S S S S S S S S S S S S S S S S S S		
			(\$\display \text{(\$\display \text{(})\text{(\$\display \text{(}			
9)	DNA Fingerprinting is applicable in					
	a) Gene therapy	• 11	c) Forer	sic science d) Hybridization		
	a) Gene merapy	b) Cloning	C) I OICI	iste setence dy frydriaization		
			20 30 B B C			
10) Tyrosine is converted in to DOPA and DOPA serves as a precursor for						
a) Adranalina b) Malanin c) non adranalina d) All of these						