SUBJECT CODE NO: - Y-2084 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc F.Y. (Sem-II)

Examination March / April - 2023 Zoology Paper-V Genetics - I

[Tim	e: 1:30	Hours] [Max. Marl	ks: 50	
_		Please check whether you have got the right question paper.	A STORY	
N. B		1) All questions are compulsory.		
IV. D				
		2) Illustrate your answer with suitable labelled diagram.		
Q1	What	is genetics? Explain in details mendel's law of dominance with suitable example.	20	
		OR STATE		
	Define	e multiple alleles and describe various coat colour in rabbit.		
Q2	Describe in detail theory of sex determination in chickens (birds)			
		OR A A	X Y	
	a)	Importance of blood groups		
	(b)	Male sterility		
	c)	Parthenogenesis		
	d)	Gene mutation		
	e)	Complementary factor		
	f)	History of Gregory Johan Mendel		
Q3	Select	and write correct answer from the given alternatives in each question	10	
(4)		Mendel studied the inheritance of different pair of contrasting character		
		a) Eight b) seven c) Six d) Five		
	2)	The expression of a single character is controlled by interaction of more than one	2	
		pair of gene is called		
		a) Factor hypothesis		
		b) Multiple alleles		
		c) Dominant gene		
		d) Inhibitory factor		
	(3)	The person belonging to blood group "AB" have antibody in plasma		
		a) Anti B or b		
		b) Anti A or a		
		c) Both a & b		
	X	d) No antibody		
	4)	Erythroblastosis foetalis is disease		
	& 5\	a) Mental b) cancer c) pleotrophy d) haemolytic		
	× 3)	Diploid chromosome number in human is		
	6)	a) 44 b) 48 c) 46 d) 23 The sex chromosome was first discovered by		
	0)	a) MC clung b) stevens c) Henking d) Bridges		
	W.	a) Tyle clung b) stevens c) Henking u) blidges		

- 7) The mutation is change that is _____
 - a) Inherited
 - b) Acquired
 - c) Man made
 - d) Autosome
- 8) Sickle cell anaemia is the classical example in
 - a) Hybrid b) Pleotropy c) Mutation d) Haemphilia
- 9) Which of the following ratio show complementary gene interaction?
 - a) 9:3:3:1 b) 1:2:1 c) 3:1 d) 9:7s
- 10) The term genetics was first used by
 - a) Willam bateson b) mendel c) MC Clung d) Darwin