Total No. of Printed Pages:2

SUBJECT CODE NO:-B-2084 FACULTY OF SCIENCE & TECHNOLOGY

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

Examination November/December- 2022 Zoology Paper-V Genetics – I

[Time:	: 1:30 Hours] [Max. Mark	s: 50
	Please check whether you have got the right question paper.	
N.B	i) Attempt all questions.ii) Illustrate your answer with suitable labelled diagram.	6125
Q.1	What is mutation? Explain spontaneous and induced mutation?	20
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	What are sex chromosomes? Explain in detail genic balance mechanism of sex determination	20
Q.2	Give an account of Mendel's law of Inheritance and explain Law of segregation with example?	20
	OR OR STATE	
	Write a short note on any four	? 20
	 (a) Test cross (b) CO₂ sensitivity (c) Supplementary factor (d) Rh factor (e) Turners syndrome (f) Types of chromosome 	
Q.3	Select and write correct answer from the given alternatives in each question	10
	(1) Gene mutation occurs at the time of (a) Cell division (b) DNA repair (c) RNA transcription (d) DNA replication	
	(2) Law is of great value for plant breeders who tries to produce new plants with new combination	
	(a) Law of segregation (b) Law of recombination (c) Law of dominant (d) Law of Independent	

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	(3) Gene for colour blind is	_ present on X-chromosome	
	(a) Recessive	(b) Heterozygous	20 ¹
	(c) Dominant	(d) Homozygous	M. Again
	(4) is an example of cytopl	lasmic inheritance	
	(a) Coat colour in rabbit	(b) Supplementary gene	
	(c) Kappa particle in parameciur	m (d) Epistasis	
	(5) Erythroblastosis foetalis is a		
	(a) Anemia	(b) Pleiotropy	
	(c) Albinism	(d) Hemolytic disease	
	(6) Mendel select garden pea as his		
	(a) Flowers are self fertilized	(b) Easy to cultivate	
	(c) Short live cycle	(d) All above	
	(7) Down syndrome is commonly is		
	(a) Sex-linked disease	(b) Mongolism	
	(c) Albinism	(d) None of these	
	(8) Mendel's law of segregation can	n be checked by method	
	(a) Dihybrid cross	(b) Monohybrid cross	
	(c) Back cross	(d) All above	3
	(9) Gynandromorphy is		
20, 10	(a) Intersex	(b) Super male	
	(c) Both a and b	(d) Female with male trait	
	(10) The resemblance between parent	t and their offspring is called	
	(a) Variation	(b) Heredity	
	(c) Evolution	(d) None of these	
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