B. Sc. 5th Semester Sessional Examination-2023 Sub-Zoology (H)

Paper- PRINCIPLES OF GENETICS

Paper Code: ZOO-HC-5026 Full Marks: 20 Time: 1 Hr

The figure in the margin indicates full marks

1. (. Choose the correct answers:			1x2=2	2	
(i) How many different types of genotypes are expected if number					is 2?	
		a. 3	c.	6		
		b. 4	d.	9		
((ii)	How many different types of gametes are expected from an individual with genotyp AaBbCc?				
		a. 3	c.	8		
		b. 4	d.	10		
2. Answer the following questions with examples (Any 4):					2x4=8	
((i)	What is Frame Shift Mutation?				
((ii)	What is Transition Mutation?				
((iii)	What is Test Cross?				
((iv)	What is Polygenic Inheritance?				
((v)	What is Sex-Linked Inheritance?				
3. Answer the following (Any 2):						
	(i) Define mutation. Describe different types of chromosomal aberration in context					
structural changes.					1+4=5	
((ii)	What is Duplicate Dominant Epistasis? Explain w	ith	example.	1+4=5	
	(iii) What is Independent Assortment? Explain with example from Mendelian genetic					
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