Name					Printed Pages:01		
Student Admn. No.:							
School of							
Summer Term Examination – July - August 2024							
[Programme: B.Sc. Biomed. Sc] [Semester: V) [Batch:		
Course Title: Evolutionary & Development Biology					Max Marks: 100		
Course Code: C2UA503T					Time: 3 Hrs.		
Instructions: 1. All questions are compulsory.							
2. Assume missing data suitably, if any.							
					K	COs	Marks
					Level		
SECTION-A (15 Marks) 5 Marks each							
1.	Explain the theory of evolution proposed by Lamarck with suitable example?						5
2.	<u> </u>						5
3.	1 1 2						5
SECTION-B (40 Marks) 10 Marks each							
4.	How can Hardy-Weinberg equilibrium be affected? Explain giving three					10	
	reasons.						-
5.	How do homologous organs represent divergent evolution? Explain with the						10
	help of a suitable example. Explain natural selection with help of example.						10
6.	Explain natural selection with help of example.					10	
7.	Discuss the components of the Modern Synthetic Theory of Evolution					10	
	SECTION C (45 M L)				1		
SECTION-C (45 Marks) 15 Marks es					acn	1 1	
8.	Discuss the concepts of "Deme," "gene pool," "gene frequency," and "genotype frequency" as they relate to population genetics.					15	
9.	Compare and contrast the processes of cleavage and gastrulation in early embryogenesis,					15	
						13	
	Discuss the concept of k-adaptation and r-adaptation strategies and how they relate to the life history and reproductive patterns of species.						
10						15	