

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biological and Life Sciences Mid Term Examination, March 2024 [Programme: Bachelor of (Hons)Chemistry] [Semester: VI]				
Course Title: Evolutionary and Developmental Biology		Max Marks: 50		
Course Code: P1UE601T		Time:1.5 Hrs.		
Instructions:	1. Assume missing data suitably, if any.			
		KL	DL	Marks
1.	Define the convergent evolution?	K2	DL1	2
2.	Discuss about the K-selection and r-selection	K1	DL3	3
3.	Explain how did Darwin's theory of natural selection revolutionize our understanding of species diversity?	K2	DL2	4
4.	Give an example of natural selection in action in detail, specifically related to industrial melanism.	K2	DL3	6
5.	Discuss the Bottleneck phenomenon and founder effect?	K3	DL2	6
6.	Discuss in detail about different types of natural Selection.	K3	DL3	9
7.	How does diversifying selection contribute to the variation of traits within a population?	K4	DL2	8
8	Explore the concept of parapatric speciation and how it involves partial geographic isolation and limited gene flow between adjacent populations.	K4	DL3	12
OR				
8.	Describe the geographical and ecological factors that contribute to each mode of speciation and the different ways in which reproductive isolation is achieved.	K4	DL3	12