

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biological and Life Sciences Summer Term Examination – July - August 2024 [Programme: B.Sc. Microbiology] [Semester: III) [Batch: I]				
Course Title: Light and Life		Max Marks: 100		
Course Code: C2UC201T		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	Define the nature and properties of light.	CO1	K1/K 2	5
2.	What is the difference between transpiration and evaporation?	CO2	K1/K 2	5
3.	Identify the term photosynthesis with proper equation.	CO3	K3/K 4	5
SECTION-B (40 Marks)		10 Marks each		
4.	List out the diversity of organism in term of bioluminescence.	CO1	K1/K 2	10
5.	Distinguish between circadian rhythms and jetlag,	CO2	K1/K 2	10
6.	Describe the role of light on the plants.	CO3	K3/K 4	10
7.	Identify the respiration? Describe all steps of Krerb's cycle	CO1	K1/K 2	10
SECTION-C (45 Marks)		15 Marks each		
8.	Elaborate the effect of chlorophylls, carotenoids, phycobiliproteins, bacteriochlorophylls, phytochromes rhodopsin photoreception in animals.	CO3	K3/K 4	15
9.	Simplify and explain the C3 cycle and C4 cycle in photosynthesis	CO4	K4/K 5	15
10	Analyze the process of cyclic and noncyclic photophosphorylation with suitable examples.	CO5	K5/K 6	15