

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
<b>School of Biological and Life Sciences</b> <b>Summer Term Examination – July - August 2024</b> <b>[Programme: B.Sc. Zoology ] [Semester: III [Batch: I</b>				
Course Title: Microbiology and Plant Pathology		Max Marks: 100		
Course Code: C1UD101B		Time: 3 Hrs.		
<b>Instructions:</b>	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
<b>SECTION-A (15 Marks)</b>		<b>5 Marks each</b>		
1.	Distinguish the working principle and function of hot air oven and autoclave.	CO1	K1/K 2	5
2.	Identify the different parts of fermenter and explain their role in fermentation process.	CO2	K1/K 2	5
3.	Explain working and Principle of electron microscopy.	CO3	K3/K 4	5
<b>SECTION-B (40 Marks)</b>				
4.	Identify the reproduction cycle of bacteriophage in bacteria.	CO1	K1/K 2	10
5.	Identify the general characteristics of virus with well labelled diagram.	CO2	K1/K 2	10
6.	Discuss the role and applications of micro-organisms in genetic engineering	CO3	K3/K 4	10
7.	Simplify the haplontic life cycle in algae.	CO1	K1/K 2	10
<b>SECTION-C (45 Marks)</b>				
8.	Define the structural and biochemical defense mechanism of plants.	CO3	K3/K 4	15
9.	Examine the difference between Ectomycorrhiza and Endomycorrhiza.	CO4	K4/K 5	15
10	Define the Pre-penetration, Penetration and Post penetration process of infection	CO5	K5/K 6	15