

**VIT**

Vellore Institute of Technology

Slot : D1+TD1**School of Bio Sciences and Technology****Fall Semester 2023-2024****Continuous Assessment Test – I****Programme Name & Branch : B.Tech - Biotechnology****Course Name & code: Microbiology - BBIT203L****Class Number (s): VL2023240101982, VL2023240101984****Faculty Name (s): (Dr. Anand A & Suneetha V)****Exam Duration: 90 Min.****Maximum****Marks: 50****General instruction(s): Answer all questions**

Q.No.	Question	Max Marks	CO	BL
1.	Relate the working mechanism of simple compound microscope and electron microscope.	10	CO1	BL1
2.	Interpret the need for sterilization. Classify the different methods of sterilization and outline the principle and mechanism of sterilization of any one method of your choice.	10	CO3	BL2
3.	How will you identify the bacterial morphology? Is it possible to differentiate them based on staining techniques? If you are asked to plan a method of differential staining – How will you proceed? Sketch the protocol.	10	CO2	BL3
4.	Classify the different bacterial culture media, infer their use and give relevant examples for each type.	10	CO3	BL4
5.	You are doing an internship in a soil microbiology lab and if you are asked to demonstrate the bacterial presence in the soil – what will be your approach? Outline the procedures involved.	10	CO4	BL2
