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School of Biological and Life sciences**Master of Science in Microbiology****Mid Term Examination - Nov 2023****Duration : 90 Minutes****Max Marks : 50****Sem I - P1PT106B - General Microbiology**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Show the concept of discovery of penicillin K2 (2)
 - 2) Explain the Scope of microbiology in research. K1 (3)
 - 3) Apply the impact of pure culture techniques in the field of microbiology. K2 (4)
 - 4) Illustrate the precise information about Mycorrhiza and what is the role of mycorrhiza in agriculture. K2 (6)
 - 5) Assess the general characteristics of Acellular microorganisms with distribution and occurrence, morphology, mode of reproduction and economic importance. K3 (6)
 - 6) Outline the difference between Gram positive and Gram negative cell wall with well labelled diagram. K3 (9)
 - 7) Construct the layout the Ecological identification methods of bacterial classification. K4 (8)
 - 8) Classify the Micro-organism on the basis of nutritional classification. K4 (12)
- OR**
- Classify the Micro-organism on the basis of Staining methods. K4 (12)