



B.Sc. I Semester Degree Examination, April/May - 2024

BOTANY

Microbial Diversity

(NEP)

Time : 2 Hours

Maximum Marks : 60

-
- Note :** (i) Answer **all** the questions.
(ii) Draw diagram wherever necessary.
-

SECTION - A

1. Answer the following questions : **10x1=10**
- (a) Define Microscopy.
 - (b) Who proposed five kingdom system of classification ?
 - (c) What is enriched media ?
 - (d) What is Lycophilization ?
 - (e) Expand ATCC.
 - (f) What is pure culture ?
 - (g) What are Plasmid ?
 - (h) What are Aplanospores ?
 - (i) Define Eubacteria.
 - (j) Name causal organism of Late blight of Potato.

SECTION - B

- Answer **any four** of the following questions : **4x5=20**
- 2. Write the contribution of microbiologist "Robert Koch".
 - 3. What is Microbial growth ? Write its distinct phases.
 - 4. Describe the structure of T-2 Bacteriophage with neat labelled diagram.
 - 5. Name the causal organism, symptoms, control measures of Citrus Canker.
 - 6. Explain the general characteristics of fungi.
 - 7. Explain the ultrastructure of Mycoplasma with neat labelled diagram.



SECTION - C

Answer **any three** of the following questions :

3x10=30

8. What is Sterilization ? Explain physical method of sterilization.
9. Write down the working Principle and application of Electron Microscope.
10. Explain the cultivation of Viruses, Vaccination and types.
11. Explain the Life cycle of Rhizopus with schematic representation.
12. Write a note on :
 - (a) Downy Mildew of Bajra
 - (b) Economic importance of Lichens

- o o o -

