



B.Sc. I Semester (NEP) Degree Examination, March/April - 2022

BOTANY

Microbial Diversity

Time : 3 Hours

Maximum Marks : 60

Instructions : (i) Answer **all** questions.
(ii) Draw diagram wherever necessary.

SECTION - A

1. Answer the following Questions. **10x1=10**
- (a) What are Soridia ?
 - (b) What is hyphae ?
 - (c) Name the casual-organism of Citrus Canker.
 - (d) What is synthetic media ?
 - (e) What is pasteurization ?
 - (f) Expand term SEM.
 - (g) What are Heterotrophs ?
 - (h) What are prions ?
 - (i) What is Lycophilization ?
 - (j) What are plasmids ?

SECTION - B

Answer **any four** of the following. **4x5=20**

- 2. Write a note on nutritional types of microbes.
- 3. Write the contribution of Leeuenhock in brief.
- 4. What are Lichens ? Write the Economic Importance of Lichens.
- 5. Explain the asexual reproduction of penicillium.
- 6. Describe the ultrastructure of T.M.V with neat labelled diagram.
- 7. Write the role of Bacteria in nitrogen fixation.



SECTION - C

Answer **any three** of the following.

3x10=30

8. Write a note on :
 - (a) Gram's Staining Technique
 - (b) SEM and TEM
9. Explain the life cycle of Rhizopus with Schematic representation.
10. Name the casual - organism, symptoms and control measures of Citrus Canker.
11. Explain the cultivation of viruses, vaccination and types.
12. What is culture media ? Explain different types of culture media.

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