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II Semester B.Sc. Degree Examination, September/October - 2022

MICROBIOLOGY

Microbial Taxonomy And Cultural Techniques

(Scheme CBCS Repeaters)

Paper : II

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates :

1. Answer all the Sections
2. Draw Diagram Wherever necessary.

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SECTION -A

I. Answer the following

(5 × 2 = 10)

- 1) Chemotrophs
- 2) NAM
- 3) Endospore
- 4) Log phase
- 5) Transport media

SECTION-B

II. Answer any FOUR of the following

(4 × 5 = 20)

- 6) Explain the principle and application of serial dilution technique.
- 7) Write note on synchronous growth in bacteria.
- 8) Explain lytic cycle of viruses.
- 9) List out general characters of Actinomycetes.
- 10) Explain the structure and reproduction of Anabaena.

SECTION-C

III. Answer any THREE of the following

(3 × 10 = 30)

- 11) Describe the life cycle of Penicillium.
- 12) Explain the nutritional requirements of micro organisms.
- 13) Explain the structure, replication and significance of TMV.

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11235

- 14) Discuss different methods involved in maintenance of pure culture.
- 15) Describe bacterial flagella, capsule and pili.

SECTION-D

IV. Answer the following in One Sentence.

(10× 1 = 10)

- 16) Facultative Anaerobe
- 17) Heterocyst.
- 18) Streptomyces
- 19) Viable count
- 20) Mycoplasma
- 21) Generation time
- 22) Elementary body
- 23) MRBA
- 24) Chemostat
- 25) Spirulina

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