

B.Sc. Semester - 3 (CBCS) Examination
Oct/Nov - 2022 [NEW COURSE]
Microbiology-M301(Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Q.1

- A. Objective type questions. (04)
1. Define: Biodiversity
 2. Explain: Genus
 3. Some bacterial cells are Eukaryotic. (True/False)
 4. Whittaker scientist gave _____ system.
- B. Answer in brief (Any 1 out of 2) (03)
1. Write short note on Microbial evolution.
 2. Explain: Microbial diversity.
- C. Write a note on (Any 1 out of 2) (07)
1. Major characteristics used in taxonomy.
 2. Introduction to metagenomics.

Q.2

- A. Objective type questions. (04)
1. Define: Microaerophilic Condition.
 2. Bacillus is spore forming rod shapes bacteria. (True/False)
 3. Explain: Barophiles
 4. Write two bacterial name of enterobacteriaceae family.
- B. Answer in brief (Any 1 out of 2) (03)
1. Explain overview of archaea.
 2. Give detail notes on Phototrophic bacteria.
- C. Write a note on (Any 1 out of 2) (07)
1. Mycobacteria and Actinomycetes.
 2. Dissimilatory Sulfate reducers.

Q.3

- A. Objective type questions. (04)
1. Define/Explain: protozoa.
 2. Earthworm is example of protozoa. (True/False)
 3. Explain: Hyphae.
 4. Name any two economical important algae.
- B. Answer in brief (Any 1 out of 2) (03)
1. Short note on morphology of Algae.
 2. Economic importance of fungi.
- C. Write a note on (Any 1 out of 2) (07)
1. Reproduction in protozoa.
 2. Classification and introduction to major divisions of Fungi.

Q.4

- A. Objective type questions. (04)
1. Corona viruses are animal virus. (True/False)
 2. Define: Bacteriophages
 3. Full form of HAV.
 4. What is virulent phage?
- B. Answer in brief (Any 1 out of 2) (03)
1. Cytocidal effects of viruses.
 2. Give the classification virus.
- C. Write a note on (Any 1 out of 2) (07)
1. Lytic life cycle.
 2. Life cycle of Lambda phage.

Q.5

- A. Objective type questions. (04)
1. Define: Bioleaching
 2. Explain: Gasohol
 3. What is Bioremediation?
 4. CH₄ is major gas for electronic vehicle. (True/False)
- B. Answer in brief (Any 1 out of 2) (03)
1. Short note on: Microbial air sanitation
 2. Explain: Biodeterioration of Textiles
- C. Write a note on (Any 1 out of 2) (07)
1. Biomagnification of pesticides.
 2. Microbial enhanced oil recovery
