

B.Sc. Semester - 3 (CBCS) Examination
Oct/Nov. -2019 [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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Que1 A: Objective type question (One mark each)**4**

1. What is a Stromatolite ?
2. What is Ssm
3. Define : Archea
4. What is metagenomics ?

Que1 B: Answer in brief (Any One out of Two)**3**

1. Explain Taxonomic Ranks
2. Discuss morphological and physiological characteristics used in taxonomy.

Que1 C: Write a note on (Any One out of Two)**7**

1. Write a detailed note on Microbial evolution and diversity
2. Explain Phylogenetic groups of Eukaryotes

Que2 A: Objective type question (One mark each)**4**

1. Mention names of dissimilatory sulfate reducers.
2. What are bacterial photosynthetic pigments ?
3. What is the significance of Rickettsia ?
4. Write the peculiarity of archeal phospholipids.

Que2 B: Answer in brief (Any One out of Two)**3**

1. Discuss about Bdellovibrio in brief
2. What are Extremophiles ?

Que2 C: Write a note on (Any One out of Two)**7**

1. Write a note on anaerobic cocci.
2. Describe the significance of Archaea.

Que3 A: Objective type question (One mark each)**4**

1. Name major classes of fungi
2. Write scientific names of any two protozoal pathogens
3. What is agar agar and funori ?
4. Write the industrial importance of Aspergillus

Que3 B: Answer in brief (Any One out of Two)	3
1. Write about importance of algae	
2. Explain ultra structure of protozoa	
Que3 C: Write a note on (Any One out of Two)	7
1. Describe classification of fungi	
2. Write a note on “Pathogenic Protozoa”	
Que4 A: Objective type question (One mark each)	4
1. What are cytopathic effects ?	
2. Give examples of diseases caused by Prions	
3. What is a plaque ?	
4. What are oncogenic viruses ? Write examples.	
Que4 B: Answer in brief (Any One out of Two)	3
1. Explain viroids in brief	
2. Explain Lysogeny with example	
Que4 C: Write a note on (Any One out of Two)	7
1. Write a note on Cultivation of viruses	
2. Explain in detail – Lytic life cycle of T4 Phage	
Que5 A: Objective type question (One mark each)	4
1. What is bioaugmentation ?	
2. Which organism is frequently used in copper bioleaching ?	
3. What is the role of Xanthomonas in oil recovery ?	
4. What is biodiesel ?	
Que5 B: Answer in brief (Any One out of Two)	3
1. Usage of bioplastic is an essential sustainable development – comment	
2. Explain air sanitation in brief	
Que5 C: Write a note on (Any One out of Two)	7
1. Discuss in detail – Biodeterioration of valuable materials	
2. Explain Biofuel technology in detail	
