

Seat No. : _____

MD-119

March-2019

B.Sc., Sem.-I

CC-3-101 : Microbiology (Introduction to Microbial World)

Time : 2:30 Hours]

[Max. Marks : 70

- Instructions :** (1) Attempt **all** questions.
(2) Write correct answer number draw neat diagrams.

1. (A) Discuss establishment of theory of Biogenesis. 14
- OR**
- (i) Developments in Morden chemotherapy. 7
(ii) Discovery of Viruses. 7
- (B) Answer (any **four** out of **six**) : 4
- (1) Define Microorganism.
(2) Give any two example of Antibiotic producing organisms.
(3) What is fermentation ?
(4) Who developed new field of soil microbiology ?
(5) Who gave concept of magic bullet ?
(6) Define Tyndallization.
2. (A) Describe structural details of prokaryotic cell with diagram. 14
- OR**
- (i) Write short note on: Natural habitats of microorganism. 7
(ii) Write short note on: Fungi. 7
- (B) Answer (any **four** out of **six**) : 4
- (1) Define Lichens.
(2) Give two examples of Archaeobacteria
(3) What is virusoids ?
(4) Give any two significance of protozoa.
(5) Role of lysosomes in eukaryotes.
(6) What is Prions ?

3. (A) Explain different methods used for isolation of pure culture. **14**
- OR**
- (i) Write note on : Lyophilization. **7**
- (ii) Write a short note on : Genetic engineering **7**
- (B) Answer (any **three** out of **five**) : **3**
- (1) Give full form of DMSO.
- (2) What is the role of bile salt in bacteriological media.
- (3) Write two example of pH indicator dyes.
- (4) Define Halophiles.
- (5) Give any two example of culture collection centres.
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4. (A) Discuss Electron microscope in details. **14**
- OR**
- (i) Write a note on : Different types of staining. **7**
- (ii) Explain Magnification and Resolving power of microscope. **7**
- (B) Answer (any **three** out of **five**) : **3**
- (1) Give full form of ZNCF.
- (2) What is the function of condenser ?
- (3) What is Romanowsky's stain ?
- (4) Who first described acid fast staining ?
- (5) Define Numerical apperture.
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