



K21P 4217

Reg. No. :

Name :

I Semester M.Sc. Degree (C.B.S.S. – Reg./Supple./Imp.)
Examination, October 2021
(2018 Admission Onwards)
ZOOLOGY
ZOO1C04 : Microbial Science

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following :

- 1) Write the causative agents, symptoms and prophylaxis of Chicken pox and AIDS.
- 2) Give a detailed account on the ultrastructure of bacterial cell using suitable diagram.
- 3) Discuss on microbial toxins and other virulence factors.
- 4) Write an essay on the classification of bacteria based on the morphology Gram's staining and culture characteristics. **(2×12=24)**

II. Answer **any two** of the following :

- 5) Write a detailed note on sterilization methods.
- 6) Write a note on mechanism and action of important classes of disinfectant.
- 7) Write a short essay on the management of pollution problems using microorganisms.
- 8) Explain the classification of virus based on host and nucleic acid characteristics. **(2×8=16)**

III. Write short notes on **any four** of the following :

- 9) Bacteriophages.
- 10) Transport in microbes.
- 11) Eutrophication.
- 12) Bacterial growth curve.
- 13) Classes of antibiotics.
- 14) Anthrax.

(4×5=20)