



K18P 1386

Reg. No. :

Name :

First Semester M.Sc. Degree (Reg./Suppl./Imp.)
Examination, October 2018
(2014 Admn. Onwards)
ZOOLOGY
ZOO 1C04 : Microbial Science

Time : 3 Hours

Max. Marks : 60

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

(2×12=24)

- 1) Give a brief account of the various classes of antibiotics and their mode of action.
- 2) Describe the ultra structure of bacterial cell wall. Add a note on structures external to cell wall.
- 3) Briefly discuss the physical and chemical methods of sterilization.
- 4) Write an essay on microbial toxins. Differentiate exotoxins and endotoxins.

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

(2×8=16)

- 5) Write an essay on microbial drug resistance.
- 6) Discuss the structure and architecture of bacteriophages.
- 7) Describe the classification of bacteria based on morphology. Add a note on Gram's staining.
- 8) Give an account of microbial growth media.

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

(4×5=20)

- 9) Eutrophication.
- 10) AIDS.
- 11) Storage of microbes.
- 12) Bergey's Manual of Systematic Bacteriology.
- 13) Anthrax.
- 14) Disinfectants.