

0045684



Reg. No. : .....

Name : .....



K19P 1524

**I Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.)**  
**Examination, October - 2019**  
**(2014 Admission Onwards)**  
**ZOOLOGY**  
**ZOO1C04: MICROBIAL SCIENCE**

Time : 3 Hours

Max. Marks : 60

- I. Answer any **TWO** of the following. (2×12=24)
1. Explain briefly the ultrastructure of a typical bacterium.
  2. Give an account of microbial toxins.
  3. Describe the physical methods of sterilization.
  4. Explain the major pollution problems due to pathogens. Add a note on management of pollution using microorganisms.
- II. Answer any **TWO** of the following. (2×8=16)
5. Discuss the nutrient requirements of bacteria.
  6. Explain microbial growth curve.
  7. Describe the structural aspects of bacterial cell wall.
  8. Give an account of different types of culture media.
- III. Write short notes on any **FOUR** of the following. (4×5=20)
9. Antibiotics
  10. Storage and transport of microorganisms
  11. Anthrax
  12. Disinfectants
  13. Retrovirus
  14. Bacterial genome
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