

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS),
BSc DEGREE EXAMINATION MAY 2017
(Fifth Semester)

14ZOU18

Branch- ZOOLOGY

MICROBIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Explain the contributions of Robert Koch.
- 2 Write the structure of Pili.
- 3 Economic importance of Mycoplasma.
- 4 Batch culture.
- 5 Tyndallization. -
- 6 Serial dilution.
- 7 What is prions?
- 8 Define icosahedral symmetry.
- 9 Comment on cholera.
- 10 Explain infectious hepatitis.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write about the structure of bacterial cell wall.
OR
b Explain the contributions of Louis Pasteur.
- 12 a Explain about endospore formation. *
OR
b Give a brief account of bacterial growth curve.
- 13 a Describe about gram staining technique.
OR
b Explain the dry heat and moist heat sterilization methods.
- 14 a Explain the structure of T₄ bacteriophage.
OR
b Write short notes on interferon.
- 15 a Discuss the mode of infection, symptoms and control of the disease typhoid.
OR
b Write a mode of infection, symptoms and control of the disease diphtheria.

SECTION-C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Explain the ultra structure of typical prokaryotic cell.
- 17 Describe various measurement methods of bacterial growth.
- 18 Describe about the pure culture techniques.
- 19 Discuss the lytic and lysogenic cycle in bacteriophages.
- 20 . Write an essay on AIDS.