

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2019
(Fifth Semester)

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 Who introduced the germ theory of Pasteurization?
- 2 Define Pilin.
- 3 Name the causative agent of Pneumonia.
- 4 What is batch culture?
- 5 Define sterilization.
- 6 What are the uses of solid medium?
- 7 What is Viroid?
- 8 What do you mean by bacteriophage?
- 9 How is Cholera transmitted?
- 10 What are the symptoms of chicken pox?

SECTION - B (25 Marks!)

Answer ALL Questions

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

- 11 a What are the contributions of Edward Jenner?
OR
b Enlist the functions of capsule in bacterial cells.
- 12 a Enumerate the significance of methanogens and streptomycetes.
OR
b Explain the typical growth curve of bacteria.
- 13 a Differentiate between enriched and selective medium.
OR
b How will you perform Gram staining?
- 14 a Briefly explain the structure of T₄ bacteriophage.
OR
b Write short notes on interferon.
- 15 a What are the mode of infection and control measures of small pox?
OR
b Elucidate the causative organism, symptoms and control measures of Cholera.

SECTION - C (30 Marks!)

Answer any THREE Questions

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

- 16 Discuss the structure and chemistry of the cell wall of Gram-negative bacteria.
- 17 Analyse the asexual methods of bacterial reproduction.
- 18 Explain in detail about various pure culture methods.
- 19 Give a detailed account on Lysogenic cycle in bacteriophages.
- 20 Describe the causative organism, mode of infection, symptoms and control