

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch - ZOOLOGY

MICROBIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x2 = 20)

- 1 Who proposed the germ theory of fermentation?
- 2 What are capsulated bacteria?
- 3 Mention the causative agent of Tuberculosis.
- 4 Define botulism.
- 5 Comment on pure culture.
- 6 What is medium?
- 7 What do you mean by interferon?
- 8 Define Icosahedron.
- 9 How is Typhoid transmitted?
- 10 What are the early symptoms of small pox?

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a What are the contributions of Louis Pasteur?
OR
b Write short notes on Nucleoid.
- 12 a Bring down the significance of Azospirillum and Rhizobium.
OR
b How will you measure the bacterial growth?
- 13 a Give a brief account on sterilization by moist and dry heat.
OR
b Write a note on inoculation.
- 14 a Elucidate the general characteristics of viruses.
OR
b Explain the mechanism of Lytic cycle in bacteriophages.
- 15 a What are the mode of infection and control measure of Diphtheria?
OR
b Briefly explain about AIDS.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Elaborate the structure and chemistry of the cell wall of Gram-positive bacteria.
- 17 Explain in detail about the batch and continuous bacterial culture.
- 18 Differentiate between streak plate and spread plate method of bacterial culture.
- 19 Describe the structure of T4 bacteriophage.