

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2017
(Second Semester)

Branch - MICROBIOLOGY

MICROBIAL DIVERSITY AND TAXONOMY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x2 = 20)

- 1 Microbial taxonomy.
- 2 Phylogeny.
- 3 Green non-s bacteria.
- 4 Nitrogen fixation in BGA.
- 5 Mycoplasma.
- 6 Endospore producing bacteria.
- 7 Nucleic acid.
- 8 Halophilic archaea.
- 9 Virion.
- 10 Bacteriophage.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write an account on five kingdom concept.
OR
b Write short notes on physiological Characteristics of Microorganisms.
- 12 a Briefly explain the purple non-s bacteria.
OR
b Explain the general characteristic features of photosynthetic bacteria.
- 13 a Give an account on characteristic features of vibrionaceae .
OR
b Write short notes on Rickettsias.
- 14 a Write short notes on cell wall of Archaea.
OR
b Write an account on Thermophilic bacteria.
- 15 a Explain the structure of Viruses.
OR
b Write short notes on classification of viruses.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Write an essay on morphological and metabolic characteristics of Microorganisms.
- 17 Write a detailed account on classification of cyanobacteria.
- 18 Write a detailed account on classification of Actinomycetes.
- 19 Write an essay on Methanogenic bacteria.
- 20 Explain the structure and classification of bacteriophage.