

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

I+WBCX^

BSc DEGREE EXAMINATION MAY 2017
(Second Semester)

Branch- MICROBIOLOGY

MICROBIAL DIVERSITY & TAXONOMY

Time : Three Hours

Maximum : 75 Marks -

SECTION-A (20 Marks)^

Answer ALL questions

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

- 1 Phylogeny.
- 2 Genus.
- 3 Chlorosome.
- 4 Hormogonia. "
- 5 Mycoplasma.
- 6 Rickettsia.
- 7 Purple membrane.
- 8 Methanogen.
- 9 TMV.
- 10 Obligate Intracellular parasites.

SECTION - B (25 Marks)^

Answer ALL Questions

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

- 11 a Describe about phenetic classification.
OR
b Explain about taxonomic rank.
- 12 a Give a short note on purple sulfur bacteria.
OR
b Discuss about classification of cyanobacteria.
- 13 a Write a general account on pasteuraceae.
OR
b Brief an account on Chlamydia.
- 14 a Write about thermophilic bacteria.
OR
b List out the general features of halophilic bacteria.
- 15 a Give a short note on viruses.
OR
b Discuss about viral nucleic acid and capsid.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Discuss in detail about techniques for determining microbial taxonomy , and phylogeny,
- 17 Explain in detailed about oxygeneic photosynthetic bacteria.
- 18 Write elaborate notes on actinomycetes.
- 19 Give a detailed note on cell membrane of archaebacteria.
- 20 Elaborate on taxonomy of RNA plant virus.