

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

Branch - MICROBIOLOGY

MICROBIAL ECOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

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

Write a note on the following:

- 1 Ecological pyramids.
- 2 Secondary consumer.
- 3 Activated sludge.
- 4 Barophiles.
- 5 Biosorption.
- 6 Cellulomonas. sp.
- 7 Soft rot.
- 8 Spermosphere.
- 9 Salmonella, syphi.
- 10 COD.

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write about species diversity.
OR
b comment on community succession.
- 12 a Write about Trickling filter.
OR
b Write about composting process.
- 13 a Detoxification of heavy metals by microbes.
OR
b Write about Biodeterioration of paper.
- 14 a Write about VAM micorrhizal association.
OR
b Write about wilt diseases of pulses (Red gram).
- 15 a Give a brief account on biofuels.
OR
b Write a note on Biological oxygen Demand(BOD).

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Give a detail account on diversity of microbial community in both aquatic and terrestrial environment.
- 17 Write in detail about solid waste recycling.
- 18 Elaborate environmental impact of dyes and its treatment strategies.