

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017  
(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)

- 1 Biodiversity
- 2 Food web
- 3 Composting
- 4 Zooglea ramizera
- 5 „ Biodeterioration
- 6 Halophiles
- 7 Mycorrhizae
- 8 Collectatrichum falcatum
- 9 Bioleaching
- 10 Biofuels \*

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Write about community succemion .  
OR  
b Write about ecological pyramids.
- 12 a Write about activated sludge system.  
OR  
b Write about solid waste recycling.
- 13 a Write a note on biological treatment of dyes.  
OR  
b Explain about biodeterioration of leather.
- 14 a Give a brief account on microbial population in rhizoplane and phyllosphere.  
OR  
b Write a note on rust disease of castor.
- 15 a Write a note on Bioleaching.  
OR .  
b What are indicator organisms and their role in water quality?

SECTION - C (30 Marks!)

Answer any THREE Questions

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

- 16 Give a detailed account on Darwin's theory of natural selection.
- 17 Write in detail about various level of treatment of waste water.
- 18 Elaborate the impact of heavy metal toxicity on human beings.
- 19 Write about the interaction of VAM micorrhizal association with plant.
- 20 State the production of biofuel from agricultural wastes and its