

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – MICROBIOLOGY

MICROBIAL ECOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

Cont...

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks ($5 \times 7 = 35$)

- 11 a Describe the ecological pyramid.
OR
b Explain about the microbial community in food web.
- 12 a Brief on the primary waste water treatment.
OR
b Narrate the importance activated sludge system.
- 13 a Summaries the deterioration of textiles.
OR
b Classify the sources of heavy metals and its effect on human health.
- 14 a Explain about the endomycorrhizae.
OR
b Describe the Smut disease of sugarcane and its control measures.
- 15 a How will you detect the BOD of the waste water?
OR
b Outline about the indicator organisms.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks ($3 \times 10 = 30$)

- 16 Discuss in detail about the Darwin's theory of natural selection.
- 17 Categorize the various methods employed for tertiary treatment of waste water.
- 18 Explain in detail account mechanism of biosorption.
- 19 Highlight on the Rhizosphere effect.
- 20 Elaborate note on bioleaching.

Z-Z-Z

END