

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019
(Sixth Semester)

Branch - **BIOCHEMISTRY**

ENVIRONMENTAL BIOCHEMISTRY AND CIVICS

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

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

- 1 What is Composting?
- 2 Name any two Air-borne pathogens.
- 3 Define non-systemic pesticides.
- 4 Draw the structure of DDT.
- 5 What is the meaning of waste disposal?
- 6 Name any two thermoplastics.
- 7 Comment on toxicity testing.
- 8 Name any two environmental mutagens.
- 9 Comment on Bt cotton.
- 10 What is NPV?

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Write a note on oxides of Sulphur and Nitrogen.
OR
b Discuss the effects and control measures of noise pollution.
- 12 a Write a note on pesticide pollution.
OR
b Explain the role of rDNA technology in pesticide degradation.
- 13 a Describe the toxic and environmental effects of plastics.
OR
b Write the toxic effects of Cadmium.
- 14 a Write the toxic effects of azodyes and nitrosamines.
OR
b Discuss about Ames test.
- 15 a Explain the role of cyanobacteria in nitrogen fixation.
OR
b What is s-endotoxin? Write the effects and uses of Bt.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Discuss the sources, effects and prevention of Air pollution.
- 17 Write the classification and mode of action of pesticides.
- 18 Explain the biochemical and pathological effects of Silica.
- 19 What are teratogenic compounds? Explain their effects on human system.
- 20 What is Citizenship? Write the fundamental rights of man.