

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2019
(Sixth Semester)

Branch - **BIOCHEMISTRY**

ENVIRONMENTAL BIOCHEMISTRY & 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 eutrophication?
- 2 Comment on PAN.
- 3 What are pesticides?
- 4 Draw the structure of DDT.
- 5 List out the toxic effects of cadmium.
- 6 List out the toxic effects of Mercury.
- 7 What are Carcinogen?
- 8 Name any two environmental mutagens.
- 9 Comment on s-endotoxin.
- 10 List out the role of biofertilizers.

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Explain the sources and biochemical effects of air pollution.
OR
b Write the sources and effects of noise pollution.
- 12 a Discuss the occurrence of pesticides in food.
OR
b Write a note on biodegradation of pesticides.
- 13 a Discuss the biochemical and pathological effects of silica.
OR
b Explain the method of industrial waste treatment.
- 14 a Describe the mode of action of nitrosamines and its effects.
OR
b Explain Ames test.
- 15 a Write a note on Bt cotton.
OR
b Discuss the fundamental rights of Man.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Explain the sources, effects and control of water pollution.
- 17 Write in detail account on the mode of action and effects of DDT & 2, 4.D.
- 18 Discuss the steps involved in biomining process with its applications.
- 19 Explain in detail account on environmental teratogens and their effects.
- 20 Discuss the nitrogen fixing microorganisms with its functions.