

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(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 are nitrogen particulates?
- 2 Enlist air borne pathogens.
- 3 Differentiate systemic and non-systemic pesticides.
- 4 List out the risks of pesticides in foods.
- 5 What is silicosis?
- 6 Mention any two roles of microbes in heavy metal degradation.
- 7 What is Ames test?
- 8 Write the carcinogenic effects of azodyes.
- 9 What is NPK?
- 10 What is leg haemoglobin(LHB)?

SECTION - B (25 Marks)

Answer **ALL** Questions

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

- 11 a Explain the effects of water pollution on human health.
OR
b Explain the compositing process.
- 12 a Explain the mode of action of DDT parathion.
OR
b Narrate the problems of pollution by pesticides.
- 13 a Explain the toxic effects of mercury and cadmium.
OR
b Enumerate the significance of biodegradation of plastics.
- 14 a Explain the mode of action of azodye and their effects.
OR
b Discuss the effects of teratogens on environmental.
- 15 a Explain the duties of a good citizen.
OR
b Explain the role of cyanobacteria in nitrogen llxization.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Discuss the causes and control of soil pollution.
- 17 Explain briefly mode of action of: (i) DDT (ii) 2.4D
- 18 Discuss the biological & pathological effects of asbestos.
- 19 Explain the detecting mutagens by Arne's test.
- 20 What are Bt-toxins? Explain their effects and uses.