

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

PG DEGREE EXAMINATION MAY 2024
(Third Semester)

TRANS DISCIPLINARY COURSE
(Common to PG Programmes)

ELEMENTS OF ENVIRONMENTAL POLLUTION

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 One of the following is not an abiotic factor.
(i) Producers (ii) Solar Energy
(iii) Climate (iv) Humidity
- 2 pH of the acid rain is < _____.
(i) 7.6 (ii) 6.8
(iii) 6.6 (iv) 5.6
- 3 Which of the following is an example for non-point source of pollution?
(i) open defecation (ii) sewage discharge
(iii) industrial effluent (iv) All the above
- 4 The biotechnological technique involving living organisms to remove pollutants is known as
(i) Organic farming (ii) Inorganic farming
(iii) Bioremediation (iv) Biosynthesis
- 5 Which of the following is not a characteristic of hazardous wastes?
(i) ignitability (ii) corrosivity
(iii) compostability (iv) reactivity

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a) Show the importance of Light – an abiotic factor.
OR
b) Explain the term, “Sustainable Development”.
- 7 a) Discuss the effects of air pollution on human health.
OR
b) Explain the effects of noise pollution on humans.
- 8 a) Justify the need for sewage treatment plant.
OR
b) Show the causes and effects of eutrophication.
- 9 a) Show the sources of soil pollution.
OR
b) Discuss the effects of soil pollution on plants and animals.
- 10 a) Justify the need for segregation of solid wastes at the source itself.
OR
b) Classify the types of solid wastes generated by a community.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a) Elucidate global environmental problems and their consequences.
OR
b) Classify the types of environmental pollutants, and explain their sources.
- 12 a) Analyze the formation of photochemical smog in the atmosphere.
OR
b) Appraise the effects of global warming and climate change.
- 13 a) Elucidate the effects of water pollution on human health.
OR
b) Enumerate the effects of BOD in water.
- 14 a) Design a bioremediation technique for removal of contaminants from soil.
OR
b) Differentiate between organic farming and inorganic farming and explain their advantages and disadvantages.
- 15 a) Recommend a suitable method of disposal of biodegradable solid wastes.
OR
b) Elucidate the steps involved in Solid Waste Management.

Z-Z-Z

END