



Seat No. _____

HN-003-0492001

**B. Sc. / M. Sc. (Applied Physics)
(Sem. II) (CBCS) Examination**

April - 2023

**Environmental Sciences : Paper-5
(New Course)**

Faculty Code : 003

Subject Code : 0492001

Time : $2\frac{1}{2}$ / Total Marks : 70

Instructions: (1) All questions are compulsory.
(2) Numbers in the right indicate marks.

- 1 (a) Write answers: 4
- (1) List out top institutes or organizations that focus on environmental studies.
 - (2) Who are notable contributions in the field environmental studies?
 - (3) How would you define the term lithosphere?
 - (4) Write a list of natural resources.
- (b) Write answers : (any one) 2
- (1) What is biosphere?
 - (2) Why is it important to study and understand environmental issues?
- (c) Write answers : (any one) 3
- (1) What is sustainable utilization ?
 - (2) What are possible actions to protect or preserve the environment?
- (d) Write answers : (any one) 5
- (1) Write a short note on the atmosphere and its importance.
 - (2) Write a brief overview of non-renewable resources.
- 2 (a) Write answers: 4
- (1) What is soil erosion?
 - (2) What is water logging?
 - (3) What is organic farming ?
 - (4) How would you define the term urbanization?

- (b) Write answers : (any one) 2
 (1) What is land use change ?
 (2) What do mean by Desertification ?
- (c) Write answers : (any one) 3
 (1) Explain: Adverse effects of land degradation.
 (2) Explain: Importance of water resources.
- (d) Write answers : (any one) 5
 (1) Write a detailed note: Benefits and Problems of Dams.
 (2) Explain the significance of forests.
- 3** (a) Write answers: 4
 (1) What is biodegradable material?
 (2) List out negative impacts or side effects of global warming on the environment and human society.
 (3) What are some of the direct uses of forest products?
 (4) What do mean by COD?
- (b) Write answers : (any one) 2
 (1) Explain : An ecosystem.
 (2) How would you define food webs in an ecological context?
- (c) Write answers : (any one) 3
 (1) Provide some information: Forest ecosystems.
 (2) What is the nitrogen cycle ? What are some of its important roles in ecological?
- (d) Write answers : (any one) 5
 (1) What is the role of the oxygen cycle in ecosystem?
 (2) How does the water cycle work?
- 4** (a) Write answers : 4
 (1) What is flood management?
 (2) How would you define acid rain ?
 (3) How would you define industrial wastes?
 (4) What is meant by the term “Pollutants” ?
- (b) Write answers : (any one) 2
 (1) What are some of the health and environmental side effects of exposure to carbon monoxide?
 (2) List the main components of atmospheric air.
- (c) Write answers : (any one) 3
 (1) List out types of pollution.
 (2) What is the role of individual in controlling pollution?

- (d) Write answers : (any one) 5
- (1) What are the key parameters that are used to assess the quality of drinking ? Explain in detail.
 - (2) How would you define soil pollution?
- 5 (a) Write answers: 4
- (1) What is bio-fuels?
 - (2) What is the meaning of BOD and what does it measure?
 - (3) What is the biotic component of an ecosystem?
 - (4) Define non-recyclable resources.
- (b) Write answers : (any one) 2
- (1) Give reasons behind global warming?
 - (2) Provide information on wind energy.
- (c) Write answers: (anyone) 3
- (1) Explain : Geothermal energy.
 - (2) Write a short note on Nuclear Hazards.
- (d) Write answers : (any one) 5
- (1) Why solar energy is considered an important source of renewable energy?
 - (2) How do producers and consumer contribute to the functioning and balance of a local ecosystem?
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