

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2026

Programme Name: B Sc (NS)

Semester: 2

Subject Code: UG21T6203

Subject Name: Environmental Science

Date: 05.06.2026

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.
- (ii) Options, if any, are specified in respective section.

Section A

Answer all 10 questions MCQs (10 x 1mark = 10 marks)

1. Minerals are examples of.
A) Renewable resources B) Non-renewable abiotic resources C) Biotic resources
D) Perpetual resources
2. The term "biodiversity" refers to:
A. Variety of plants only B. Variety of animals only C. Variety of life forms
D. Variety of ecosystems only
3. In a food chain, plants are:
A. Primary consumers B. Secondary consumers C. Producers D.
Decomposers
4. Energy decreases at each trophic level because:
A. It is destroyed B. It is stored forever C. It is lost as heat D. It increases
5. Energy in an ecosystem flows
A In a cycle B In one direction C Both ways D Randomly
6.are used as fire extinguishing agents as they do not pose a harm to
people and equipment exposed to them during fire fighting.
A Halons B Chlorofluorocarbons (CFCs) C CO₂ D Hydro Carbons
7. Population explosion mainly affects the environment through:
A) Decrease in urbanization B) Increased resource consumption and pollution
C) Conservation of nature D) None of the above

8. Porous water-saturated layers of sand, gravel or bedrock through which ground water flows are called

A Rain water B Biotic compound C Aquifers D Well water

9. The excessive growth of algae and aquatic plants due to added nutrients is called.....

A Eutrophication B coliform bacteria C bioaccumulation

10. Sustainable development focuses on:

A) Economy only B) Environment only C) Social, economic & environmental balance D) Technology only.

Section B

Answer all Five Short Questions (5 x 2 marks = 10 marks)

11. Describe the concept of an ecosystem, and explain the structure and function of an ecosystem.

12. Briefly define Air and water pollution and diseases caused by them.

13. What are in-situ and ex-situ conservation methods? Give examples

14. Describe briefly the role of Information Technology in Environment And human health.

15. What is waste land reclamation.

Section C

Answer any five from Seven Questions (5 x 10 marks = 50 marks)

16. Describe the environmental effects of extracting and using mineral resources.

17. Explain the concept of energy flow in an ecosystem with the help of a well-labelled diagram.

18. Describe the causes, effects and control measures of thermal pollution.

19. Describe flood management in India. The answer should include description of any five types of floods and the short-term, mid-term and long-term effects of floods.

20. Explain the concept of acid rain with the help of chemical equations.

21. Evaluate urban problems related to energy and suggest sustainable solutions.

22. Discuss the causes, effects, and solutions of climate change, global warming, and ozone layer depletion. How are these environmental issues interconnected?
(6+4 marks = 10 marks)
