

Indian Maritime University

(A Central University, Govt of India)

Supplementary Examinations – September/October 2024

Programme Name: B Tech (NAOE/NASB)

Semester: II

Subject Code: UG12T2205/UG13T1205

Subject Name: Environmental Studies

Date: 12.09.2024

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

Ten MCQs/Fill in the Blanks of 01 Mark each – Choose the correct answer as applicable.

1. Which of the following is an associated problem with non-renewable resources?
 - a) Over exploitation
 - b) Infinite availability
 - c) Rapid replenishment
 - d) Sustainable usage
2. The day that is celebrated as the world environment day is
 - a) 5th June
 - b) 6th June
 - c) 8th July
 - d) 5th July
3. Energy flow in an ecosystem follows which direction?
 - a) From consumers to producers
 - b) From decomposers to producers
 - c) From producers to consumers
 - d) From decomposers to consumers
4. How many total numbers of biodiversity hotspots are there in the world?
 - a) 26
 - b) 36
 - c) 46
 - d) 56

5. Genetic diversity encompasses variations in
- a) Only physical characteristics within a species.
 - b) Only species composition within an ecosystem.
 - c) Both physical characteristics within a species and species composition within an ecosystem.
 - d) Only climate patterns within an ecosystem.
6. Which of these are essential non-metallic minerals?
- a) Coal and silica
 - b) Silver and Chromium
 - c) Tin and lead
 - d) Nickel and copper
7. Noise pollution is often measured in units called
- a) Joules (J)
 - b) Watts (W)
 - c) Hertz (Hz)
 - d) Decibels (dB)
8. Which of the following is NOT a greenhouse gas?
- a) Carbon dioxide
 - b) Methane
 - c) Nitrogen
 - d) Water vapour
9. The Environmental Protection Act of India was enacted in the year
- a) 1972
 - b) 1986
 - c) 1992
 - d) 2000
10. Which of these are also known as Detrivores?
- a) Herbivore
 - b) Omnivore
 - c) Producers
 - d) Decomposers

Section B

Five Questions of 02 Marks each

11. What is sustainable development? Explain in two points.
12. Differentiate between food chains and food webs.
13. Explain the consequences of deforestation with examples.

14. Explain the concept of solid waste management and discuss two methods of waste disposal.

15. Discuss in detail about the causes of global warming.

Section C

Seven Questions of 10 Marks each of which any 05 questions to be answered.

16. What is your understanding on the nonrenewal energy resources and their availability in India?

17. Explain the concept of ecological succession with emphasis on climax ecosystem.

18. Describe India as a mega-diversity nation and highlight its importance in terms of biodiversity.

19. Define disaster management and discuss important measures for mitigating cyclones and flood disasters.

20. Explain the sources of water pollution and mitigation measures.

21. What is sea level and how it is sensitive to the global warming.

22. Discuss various urban problems related to energy consumption and propose solutions.

