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KT. Ezeew.

**Indian Maritime University**  
**(A Central University, Govt of India)**  
**End Semester Examinations – December 2023**  
**Programme Name: B. Sc. (NS)**  
**Semester: II**  
**Subject Code: UG21T5206**  
**Subject Name: Environmental Studies**

Date: 18.11.2023

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 the questions, MCQ and True or False

(10 x 1 mark = 10 marks)

1. In which of the Atmospheric layer the Ozone layer is situated?
  - a) Troposphere
  - b) Stratosphere
  - c) Mesosphere
  - d) Thermosphere
2. Which among the following winds yield maximum rain in India?
  - a) Retreating monsoon wind
  - b) N.E. monsoon wind
  - c) S.W. monsoon wind
  - d) None of the above
3. A narrow belt of living organism (both plant and animal life) is called.
  - a) Environment
  - b) Ecology
  - c) Biosphere

d) Lithosphere

4. Maximum human impact on environment is visible in.....

- a) Agricultural areas
- b) Tribal areas
- c) Urban areas
- d) Pastoral areas

5. Which among the following is not a greenhouse gas?

- a) Water vapour
- b) Oxygen
- c) Carbon dioxide
- d) Methane

6. A Wind Rose is a graphic tool used by meteorologists to summarize information on wind speed and direction at a particular location over a specified period of time (True/False)

7. Stratopause is a layer separating the Troposphere and the Stratosphere (True/False)

8. The average atmospheric pressure at sea level is 1013.2 millibar (True/False)

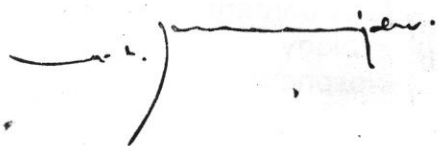
9. The direction and force of wind experienced on a moving ship is termed as the Apparent or Relative Wind (True/False)

10. A Cirrus cloud is an example of a mid-level cloud (True/False)

### Section B

**Answer all the questions (5x2marks= 10 marks)**

- 11. Write five major renewable energy sources.
- 12. Describe is acid rain?
- 13. Enlist three major causes of population growth in India.
- 14. What is Food chain and Food web?
- 15. What is terrestrial radiation?



**Section C**

**Answer any five out of seven questions.**

**( 5 x 10 marks = 50 marks)**

16. Explain in detail the In-Situ and Ex-Situ conservation strategies of Biodiversity with suitable examples. (10 marks)

17. Explain the role of an individual in the conservation of Natural Resources? (10 marks)

18. What is Greenhouse Effect and how does it influence Global Warming? (10 marks)

19. Define the following:

- a) Isobar
- b) Barometric Tendency
- c) Pressure Gradient
- d) Buys Ballots Law

(2.5 marks each)

20. Draw the Ecological Pyramid with numbers and explain in details. (10 marks)

21. Explain the process of cloud formation by convection currents, with some examples of Low Level Clouds. (10 marks)

22. What is meant by Environmental Ethics and state some possible solutions to the issues concerning them. (10 marks)

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