

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

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Date: 05.06.2023

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

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**General Instructions**

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

**Section A**

1. Maximum human impact on environment is visible in.....
  - a) agricultural areas
  - b) tribal areas
  - c) urban areas
  - d) pastoral areas
2. Terrestrial radiation is.....
  - a) radiation from the sun
  - b) radiation from the atmosphere
  - c) radiation from the earth
  - d) radiation from the dust particle
3. Heat energy released at the time of condensation is called.....
  - a) Scattering
  - b) Latent heat
  - c) Reflection
  - d) Ground radiation
4. Which among the following is not a green house gas?
  - a) Water vapour
  - b) Oxygen
  - c) Carbon dioxide
  - d) Methane
5. Which among the following clouds produce heavy rain accompanied by Lightning, thunder and gusty wind?

- a) Nimbostratus cloud
- b) Cumulonimbus cloud
- c) Cumulus cloud
- d) Cirrus cloud

6. The Indian forests of the North-East and the Western Ghats are globally accepted Hot Spots of Biodiversity (True/False)
7. Value education in the context of environment studies means one's own principles and standards from which we judge what is right and wrong behaviour when dealing with issues concerning the environment (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. Stratopause is a layer separating the Troposphere and the Stratosphere (True/False)

### **Section B**

#### **Short Answers type questions – all of 2 marks each**

11. What is food chain?
12. Write at least two examples of Renewable and Non-renewable resources.
13. Briefly describe Beaufort scale?
14. What are the reasons for variation in population growth rates in different regions on Earth?
15. What is Insolation and Terrestrial Radiation?

### **Section C**

#### **Answer any five out of seven questions, all questions of 10 marks each .**

16. List out at least 5 major causes and 5 major effects of air pollution. (10 marks)
17. Explain major causes of loss of bio-diversity. (10 marks)
18. Define: (2.5 x 4 = 10)
- a) Isobar

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

19. Explain how the clouds are formed and classify clouds on the basis of heights and explain about the clouds which produce heavy rain (10 marks)
20. Explain about at least three most important causes of Global warming. (10 marks)
21. Explain the role of an individual in the conservation of Natural Resources? (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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Tolani

