

Reg. No .....

Name .....

25P2015

**M. Sc. DEGREE END SEMESTER EXAMINATION - APRIL 2025**

**SEMESTER 2 : ENVIRONMENTAL SCIENCE**

**COURSE : 24P2EVST05 : EARTH AND ATMOSPHERE**

*(For Regular - 2025 Admission)*

Duration : Three Hours

Max. Weights: 30

**PART A**

**Answer any 8 questions**

**Weight: 1**

1. Briefly explain the formation of oceans. (An, CO 1)
  2. Explain the significance of water vapour in the atmosphere. (A, CO 3)
  3. Comment on the chemistry of Earth's atmosphere. (U, CO 1, CO 4)
  4. What is meant by water logging? (U, CO 2)
  5. Define ENSO. (R, CO 3)
  6. Distinguish between physical and chemical weathering. (A, CO 1, CO 4)
  7. Discuss water cycle. (R, CO 5, CO 6)
  8. Discuss nearshore currents. (A, CO 5, CO 6)
  9. Comment on components of the Earth's life-support system. (R, CO 1)
  10. Define salinization. (R, CO 2)
- (1 x 8 = 8)**

**PART B**

**Answer any 6 questions**

**Weights: 2**

11. Explain the role of microbes in soil. (An, CO 1, CO 4)
  12. Describe the anatomy of waves with image. (An)
  13. What do you know about landscape ecology? Discuss its importance. (U, CO 2)
  14. Briefly describe the formation of backwaters. (An, CO 5, CO 6)
  15. Briefly describe the formation of oxygen in the atmosphere. (R, CO 1)
  16. What do you mean by Geomorphological processes? (E, CO 1, CO 4)
  17. Discuss the global distribution of precipitation. (E, CO 3)
  18. Discuss beach system with suitable diagram. (A, CO 5, CO 6)
- (2 x 6 = 12)**

**PART C**  
**Answer any 2 questions**

**Weights: 5**

19. Explain water cycle and different aquatic habitats. (An, CO 1, CO 4)
20. Explain the Physico-chemical characteristics, divisions and composition of atmosphere and comment on the significance of atmospheric components. (E, CO 1, CO 4)
21. Write an essay on erosional and depositional features with reference to Kerala Coast. (A, CO 5, CO 6)
22. Explain Koeppen's classification of climate and comment on its ecological significance. (A, CO 3)
- (5 x 2 = 10)**

**OBE: Questions to Course Outcome Mapping**

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Outline the concept of life and life supporting systems	U	1, 3, 6, 9, 11, 15, 16, 19, 20	20
CO 2	Formulate plans for ecological assessment of landscape for vegetation and habitats	Cr	4, 10, 13	4
CO 3	Identify the importance of weather and climatic patterns	U	2, 5, 17, 22	9
CO 4	Examine the effect of climate change on ecosystems and human welfare	An	3, 6, 11, 16, 19, 20	16
CO 5	Summarize the climatic regions of India with special reference to tropical monsoon climate	An	7, 8, 14, 18, 21	11
CO 6	Develop knowledge on how to effectively manage the various water resources	Cr	7, 8, 14, 18, 21	11

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;