

M. Sc. DEGREE END SEMESTER EXAMINATION - APRIL 2026**SEMESTER 2 : ENVIRONMENTAL SCIENCE****COURSE : 24P2EVST05 : EARTH AND ATMOSPHERE***(For Regular 2025 Admission and Improvement/Supplementary 2024 Admission)*

Time : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

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| 1. | Comment on tidal inlets. | (U, CO 5, CO 6) |
| 2. | Define estuary. | (U, CO 2) |
| 3. | Explain subduction. | (U, CO 1, CO 4) |
| 4. | Comment on flows. | (U) |
| 5. | What is subsidence of air? | (U, CO 3) |
| 6. | What is Mohorovicic discontinuity? | (R, CO 1) |
| 7. | Define desertification. | (U, CO 2) |
| 8. | Briefly discuss ITCZ. | (U, CO 3) |
| 9. | Explain the concept of life. | (U, CO 1) |
| 10. | Comment on symbiotic association of actinomycetes. | (An, CO 1, CO 4) |
| | | (1 x 8 = 8) |

PART B**Answer any 6 questions****Weights: 2**

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| 11. | Discuss South West monsoon. | (An, CO 3) |
| 12. | Describe the structure of Earth. | (R, CO 1) |
| 13. | Briefly discuss the geomorphological features of India. | (An, CO 5, CO 6) |
| 14. | Explain the characteristics of thermosphere. | (R, CO 1, CO 4) |
| 15. | Explain the characteristics of sedimentary and metamorphic rocks. | (R, CO 1, CO 4) |
| 16. | Explain land use in coastal ecosystem. | (U, CO 2) |
| 17. | Explain beach drifts. | (R) |
| 18. | Write a short note on marine resources. | (U, CO 5, CO 6) |
| | | (2 x 6 = 12) |

PART C**Answer any 2 questions****Weights: 5**

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| 19. | Explain the following major geomorphologic processes: a) Plate tectonics b) Sea floor spreading c) Mountain building d) Evolution of continents. | (An, CO 1, CO 4) |
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20. Explain the different factors that cause variations in temperature from place to place. (A, CO 3)
21. Explain the Physico-chemical characteristics, divisions and composition of atmosphere and comment on the significance of atmospheric components. (E, CO 1, CO 4)
22. Discuss the influence of environmental changes in sea level rise and Coastal protection methods. (An, CO 5, CO 6)
(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	3, 6, 9, 10, 12, 14, 15, 19, 21	20
CO 2	Formulate plans for ecological assessment of landscape for vegetation and habitats	Cr	2, 7, 16	4
CO 3	Identify the importance of weather and climatic patterns	U	5, 8, 11, 20	9
CO 4	Examine the effect of climate change on ecosystems and human welfare	An	3, 10, 14, 15, 19, 21	16
CO 5	Summarize the climatic regions of India with special reference to tropical monsoon climate	An	1, 13, 18, 22	10
CO 6	Develop knowledge on how to effectively manage the various water resources	Cr	1, 13, 18, 22	10

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