

Reg. No

Name

23P2015

M. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023

SEMESTER 2 : ENVIRONMENTAL SCIENCE

COURSE : 21P2EVST05 : EARTH AND ATMOSPHERE

(For Regular - 2022 Admission and Supplementary - 2021 Admission)

Duration : Three Hours

Max. Weights: 30

PART A

Answer any 8 questions

Weight: 1

1. Briefly explain the formation of oceans. (An)
 2. Define estuary. (U, CO 2)
 3. Define soil erosion. (U, CO 2)
 4. Comment on the temperature profile of stratosphere. (A, CO 1)
 5. Define fault. (R, CO 4)
 6. Explain the symbiotic association in lichen. (An, CO 4)
 7. Briefly discuss ITCZ. (U, CO 3)
 8. Explain the scope of climatology. (A, CO 3)
 9. Discuss the two major types of slides in geomorphology. (R, CO 6)
 10. What are bays? (R, CO 6)
- (1 x 8 = 8)**

PART B

Answer any 6 questions

Weights: 2

11. Describe the structure of Earth. (R)
 12. What do you know about landscape ecology? Discuss its importance. (U, CO 2)
 13. Explain the temperature profile of troposphere. (U, CO 1)
 14. Comment on continental drift theory. (A, CO 4)
 15. Briefly discuss mountain climate in India. (An, CO 3)
 16. Discuss the influence of topography on regional pattern of precipitation. (A, CO 3)
 17. Explain different types of erosion processes. (A, CO 6)
 18. Comment on chemical composition of ocean water. (An, CO 6)
- (2 x 6 = 12)**

PART C

Answer any 2 questions

Weights: 5

19. Explain different types of weathering and the processes involved in soil formation. (An, CO 4)
 20. Explain the following major geomorphologic processes: a) Plate tectonics b) Sea floor spreading c) Mountain building d) Evolution of continents. (An, CO 4)
 21. Write an essay on lake formation. (An, CO 6)
 22. Write an essay on hydrological cycle. (E, 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	4, 13	3
CO 2	Formulate plans for ecological assessment of landscape for vegetation and habitats	A	2, 3, 12	4
CO 3	Identify the importance of weather and climatic patterns	An	7, 8, 15, 16	6
CO 4	Examine the effect of climate change on ecosystems and human welfare	E	5, 6, 14, 19, 20	14
CO 6	Develop knowledge on how to effectively manage the various water resources	Cr	9, 10, 17, 18, 21, 22	16

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