

M. Sc. DEGREE END SEMESTER EXAMINATION - JULY 2021**SEMESTER 2 : ENVIRONMENTAL SCIENCE****COURSE : 16P2EVST06 : EARTH AND ATMOSPHERE***(For Regular - 2020 Admission and Supplementary - 2019/2018/2017/2016 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer any 10 (2 marks each)**

1. Define Environmental Chemistry.
2. Explain the concept of life.
3. Distinguish between physical and chemical weathering.
4. Distinguish between sandy soil and silty soil.
5. Explain sea level change.
6. What is the relation between colloids and the nutrient binding capacity of the soil?
7. Distinguish between climatology and meteorology.
8. Define ENSO.
9. Explain the montane or alpine climate of India.
10. Define ecosphere.
11. Define estuary.
12. State empty niche hypothesis.

(2 x 10 = 20)**PART B****Answer any 5 (5 marks each)**

13. Describe the components of Environmental Science.
14. Describe the structure of Earth.
15. Write a short note on Pangaea formation in terms of plate tectonics.
16. Explain "the ring of fire".
17. Draw a schematic view of the components of the global climate system.
18. Explain the global climatic phenomena-El Nino and La Nina.
19. Comment on the role of tectonic processes in shaping the landscape.
20. Explain the term fitness to the new environment with suitable example.

(5 x 5 = 25)**PART C****Answer any 2 (15 marks each)**

21. With the help of a diagram explain the processes in the hydrologic cycle.
22. Explain causes and factors of climate change. Discuss the effect of climate change on ecosystems and human welfare.
23. Describe the concept of ecological land degradation and its major types.
24. Discuss different methods used for the control of invasive species.

(15 x 2 = 30)