20P2028

Reg. No ..... Name .....

M. Sc DEGREE END SEMESTER EXAMINATION - MARCH 2020

SEMESTER 2 : ENVIRONMENTAL SCIENCE

COURSE : **16P2EVST06 : EARTH AND ATMOSPHERE**

(For Regular - 2019 Admission & Supplementary 2018/2017/2016 Admissions)

Time : Three Hours Max. Marks: 75

Section A

Answer any 10 (2 marks each)

1. "Environmental Science is an interdisciplinary academic field". Explain.
2. Explain the characteristics of mantle.
3. What are the characteristics of igneous and sedimentary rocks?
4. Explain the environmental significance of sinkholes.
5. Comment on the chemistry of Earth's atmosphere.
6. Explain the significance of soil profile.
7. Explain the scope of climatology.
8. What is meant by a black body? Give examples.
9. Comment on the two rain bearing systems causing rainfall in India.
10. What are the Primary surface processes responsible for most topographic features.
11. Explain the role of plants and animals in shaping the landscape.
12. What is meant by reproductive potential?

(2 x 10 = 20)

Section B

Answer any 5 (5 marks each)

13. What were the driving factors for the development of Environmental science as a substantive, active field of scientific investigation?
14. Briefly describe the formation of oxygen in the atmosphere.
15. What are the different types of soil found in India? Explain the characteristics and location of each.
16. What do you mean by Geomorphological processes?
17. Explain the elements that make up the weather and climate of a place.
18. Explain different mechanisms for forceful lifting of air.
19. Explain the causes and effects of salinisation and water logging.
20. What are the factors which help the invasive species to succeed in an area?

(5 x 5 = 25)

Section C
Answer any 2 (15 marks each)

21. Comment on continental drift theory and evolution of continents. Give different evidences to support this theory.
22. Explain different conditions of atmospheric stability and the relationship of stability and daily weather.
23. What do you know about landscape ecology? Discuss its importance.
24. State and explain different hypotheses on biological invasion.

(15 x 2 = 30)