

Reg. No

Name

19P2028

MSc DEGREE END SEMESTER EXAMINATION - MARCH/APRIL 2019

SEMESTER 2 : ENVIRONMENTAL SCIENCE

COURSE : 16P2EVST06 : EARTH AND ATMOSPHERE

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

Time : Three Hours

Max. Marks: 75

Section A

Answer any 10 (2 marks each)

1. Define Environmental Chemistry.
2. Describe the formation of Earth briefly.
3. What are the characteristics of igneous and sedimentary rocks?
4. Comment on the chemistry of Earth's atmosphere.
5. Explain sea level change.
6. Explain the significance of soil profile.
7. Distinguish between weather and climate.
8. Define precipitation.
9. What is meant by riparian zone?
10. Explain the role of plants and animals in shaping the landscape.
11. Define allelopathy.
12. What is meant by biological control of invasive species?

(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. Comment on continental drift theory.
16. Write a short note on Pangaea formation in terms of plate tectonics.
17. Explain 'Scattering' of the solar radiation.
18. Briefly describe the influence of turbidity on aquatic life.
19. Explain the causes and effects of salinisation and water logging.
20. Describe propagule pressure hypothesis.

(5 x 5 = 25)

Section C

Answer any 2 (15 marks each)

21. Explain the Physico-chemical characteristics, divisions and composition of atmosphere and comment on the significance of atmospheric components.
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. Write an essay on biological invasions.

(15 x 2 = 30)