

Reg. No .....

Name .....

**18P228**

**M Sc DEGREE END SEMESTER EXAMINATION - APRIL 2018**  
**SEMESTER 2 : ENVIRONMENTAL SCIENCE**  
**COURSE : 16P2EVST06 ; EARTH AND ATMOSPHERE**  
*(Common for Regular - 2017 admission & Supplementary 2016 Admissions )*

Time : Three Hours

Max. Marks: 75

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

1. Define Environmental Chemistry.
2. What are the characteristics of mantle?
3. Distinguish between sandy soil and silty soil.
4. What are the characteristics of igneous and sedimentary rocks?
5. Explain the environmental significance of sinkholes.
6. What is meant by CEC?
7. Distinguish between perihelion and aphelion.
8. What is meant by a black body? Give examples.
9. Explain the influence of the Himalayas and Thar desert on India's climate.
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. State the biotic resistance hypothesis.

**(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. Write notes on structural deformation in geology.
17. Explain climate change.
18. Explain the influence of pH on aquatic life.
19. Explain causes and effects of desertification.
20. Explain natural enemy hypothesis and evolution of invasiveness hypothesis.

**(5 x 5 = 25)**

**Section C**  
**Answer any 2 (15 marks each)**

21. Write an essay on physico - chemical aspects of water.
22. Explain Koeppen's classification of climate and comment on its ecological significance.
23. Comment on ecological principles at work with Landscapes.
24. Discuss different methods used for the control of invasive species.

