D 33385 (Pages : 2) Name..... 20

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2013

(CCSS)

Environmental Science

ES1 C01—EARTH SCIENCE—I

(2010 admissions)

Time : Three Hours Maximum : 36 Weightage

Part A

Answer **all** *questions in one or two sentences each.*
Each question carries 1 *weightage.*

1. Define stony meteorite.
2. What is asthenosphere ?
3. Define cleavage of a mineral.
4. Give the characteristic physical properties of garnet.
5. Mention two important differences between Plutonic and Volcanic rocks.
6. Give the characteristics of laterite.
7. Distinguish between Dip and Apparent dip.
8. Define fold axis.
9. Distinguish between Richter scale and Mercalli scale.
10. Give two arguments in support of continental drift hypothesis.
11. Define biological weathering.
12. What are the factors of soil formation ?
13. Define wet lands.
14. Define oxbow lake.

(14 × 1 = 14 weightage)

Part B

Answer any **seven** *of the following, limiting your answer to* **one** *page in each case.*
Each question carries 2 *weightage.*

15. Describe the characteristics of crust and mantle of the earth.
16. Explain the characteristics of different types of seismic waves.
17. Give an account of the physical properties of minerals.

18. Describe the characteristics of sedimentary rocks with suitable examples.
19. Describe the different types of joints.
20. Discuss different types of physical weathering.
21. Give the characteristics of wetlands of Kerala.
22. What are the different types of stream erosion ?
23. Give a brief account of CRZ.
24. Describe the different types of soils of Kerala.

(7 × 2 = 14 weightage)

Part C

Answer any **two** *of the following..*
Each question carries 6 weightage.

25. Give an account of the important hypothesis on the origin of earth.
26. Explain the concept of plate tectonics.
27. Describe the landforms formed by coastal erosion.
28. Describe different types of unconformites.

(2 × 4 = 8 weightage)