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Reg. No. : .....

Name : .....

First Semester M.Sc. Degree Examination, May 2023

Environmental Sciences

ES 212 : ENVIRONMENTAL GEOLOGY

(2018 Admission Onwards)

Time : 3 Hours Max. Marks : 75

I Write short note on **any ten** of the following

1. Physical properties of minerals
2. Diastrophic forces
3. Stream ordering
4. Hydrologic budget
5. Low pressure system
6. Confined aquifers
7. Darcy's law
8. Pillow lava
9. B horizon
10. Watergap and windgap
11. Continental drift
12. Earthquake proofing.

(10 × 2 = 20 Marks)

P.T.O.

II Answer **any five** of the following

13. Internal structure of earth
14. Recession of Himalayan glaciers
15. Mitigation measures in impact of mining
16. Factors affecting slope stability
17. Types, causes and effects of Avalanches
18. Land use planning for watershed management
19. Geological Time scale

(5 × 5 = 25 Marks)

III Answer **any three** of the following.

20. Describe physical, chemical and biological weathering of rocks in. Also give an account on soil formation.
21. Briefly explain rain water harvesting techniques and ground water recharge methods with neat sketches.
22. Describe causes, types and effects of flood with special reference to Kerala floods.
23. Give an account of the formation, forms, textures and structures of metamorphic rocks.

(3 × 10 = 30 Marks)