(Pages 2)

36

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2014

(CUCSS)

Environmental Science

ES 2C 05—EARTH SCIENCE-2

Time : Three Hours

Maximum : 36 Weightage

Part A

*Answer **all** questions from 1-14 in one **or** two sentences each.*

1. Define Urbanization.

2. Distinguish between specific yield and specific retension.

3. Distinguish between artificial and natural recharge of groundwater.

4. What are the disadvantages of using conventional energy resources ?

5. What are the uses of soil surveys ?

6. Define soil profile.

7. Give two important uses of hazard zonation maps.

8. What is a land capability map ?

9. Give two advantages of using ground water.

10. What are avalanches ?

11. What is meant by a groundwater province ?

12. Give two important environmental impacts of river sand mining.

13. How do you estimate rainfall of a place ?

14. Distinguish between aquiclude and aquitard.

$(14 \times 1 = 14 \text{ weightage})$

Part B

*Answer any **seven** of the following from questions 15 to 24,
limiting your answer to **one page** in each case.*

15. Discuss the significance of land management.

16. Describe the techniques employed in estimating soil moisture.

17. Discuss the impacts of river pollution in Kerala.

Turn over

18. How can we reclaim land after clay mining ?

19. Discuss the significance of salt water intrusion in the coastal aquifers of Kerala.

20. What are the primary effects of earthquakes ?

21. Discuss the importance of hydrologic cycle.

22. What are the impacts associated with highway construction ?

23. Describe a soil profile with examples.

24. How do we diagramatically represent quality of groundwater ?

$(7 \times 2 = 14$ weigh

Part C

Answer any **two** *of the following from questions 25 to 28.*

25. Describe the ground water provinces of India.

26. Discuss the importance of site selection and evaluation.

27. Describe the hazards associated with volcanic eruptions.

28. Describe the physical properties of soils. Add a note on lateritic soils of Kerala.

$(2 \times 4 = 8$ weig