

C 21187

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Name.....

Reg. No.....

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2017**

(CUCBCSS—UG)

Geology

GLY 6B 24 (E1)—ENVIRONMENTAL GEOLOGY

Time : Three Hours

Maximum : 80 Marks

*Draw neat sketches wherever necessary.*

**Part A**

*Answer all ten questions in one word or one sentence each.*

1. Anything we get from our environment that meets our needs and wants.
2. Slow movement of wet soil over impermeable material is called \_\_\_\_\_.
3. A measure of the damaging effects on an earthquake.
4. Chain of volcanic islands formed parallel to a subduction zone, on an overriding plate.
5. Water containing dissolved chemicals; applied particularly to fluids escaping from waste disposal sites.
6. What is the rate of increase of temperature with depth in the earth called ?
7. The warming of the atmosphere due to trapping of infrared rays by atmospheric gases.
8. The point on earth's surface directly above the focus of an earthquake is known as \_\_\_\_\_.
9. Precipitation with a pH less than 5.0.
10. The concentration of calcium and magnesium ions in water.

(10 × 1 = 10 marks)

**Part B (Short Answer Type Questions)**

*Explain any ten of the following.  
Each question carries 2 marks.*

11. Liquefaction.
12. Magnitude of earthquake.
13. Aftershocks.
14. Sustainable development.
15. Rock fall.
16. Wet lands.
17. Infiltration capacity.

Turn over

18. Point source pollutant.
19. Cone of depression.
20. Miscible contaminant.
21. Anthracite coal.
22. Nuclear waste.

(10 × 2 = 20 marks)

### Part C (Paragraph Type Questions)

*Describe any five of the following.  
Each question carries 6 marks.*

23. Renewable and non-renewable resources.
24. The role of gravity in mass movement.
25. Saltwater intrusion.
26. Solar-thermal power plant.
27. Geothermal energy.
28. Global warming.
29. Sources and types of marine pollution.
30. Slope stabilization techniques.

(5 × 6 = 30 marks)

### Part D (Essay Type Questions)

*Answer any two questions.  
Each question carries 10 marks.*

31. Distinguish between earthquake forecasting and earthquake prediction and describe the kinds of precautions that can be taken.
32. Write an essay on the types of environmental degradation and the remedial measures.
33. What are landslides ? Explain the causes of landslides. Add note on the preventive measures to control landslides.
34. Write an essay on natural disasters. Explain the action plan to reduce such disasters.

(2 × 10 = 20 marks)