

C 82994

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Name..... 25

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2015

(CUCBCSS-UG)

Core Course

Geology

GL 2B 03—DYNAMIC GEOLOGY AND GEO-INFORMATICS

Time : Three Hours

Maximum : 80 Marks

Draw neat sketches wherever necessary.

Part A (Objective Type Questions)

Answer all ten questions.

Name the following :—

1. Water table above the main water table.
2. Drainage pattern that develops on a jointed and faulted terrain.
3. Angular point on a long profile of a stream representing rejuvenation.
4. Calcareous deposit that grows upwards from the floor of a limestone cave.
5. Terrain elevation data provided in digital form.
6. Ocean current that moves parallel to shore.
7. Ocean floor that extends beyond continental slope.
8. A huge block of rock transported and deposited by glacier.
9. Geologic formation that is neither porous nor permeable.
10. Triangle shaped fluvial deposit at the mouth of a river.

Part B (Short Answer Type Questions)

(10 × 1 = 10 marks)

Answer any ten questions.

11. Antecedent streams.
12. Drumlin.
13. Confined aquifer.
14. Esker.
15. Pedestal rocks.
16. Alluvial fans.

Turn over

17. Glacial plucking.
18. Capacity of a river.
19. Tombolo.
20. Continental slope.
21. Georeferencing.
22. Vector data.

(10 × 2 =

Part C (Paragraph Type Questions)

Answer any **five** questions.

23. Moraines.
24. Types of aquifer.
25. Coral reefs.
26. Ocean currents.
27. Glacial erosion.
28. Porosity and permeability.
29. GIS softwares.
30. Stream piracy.

(5 × 6 =

Part D (Essay Type Questions)

Answer any **two** questions.

31. Explain the geologic work of rivers. Briefly describe the various erosional landforms
32. Briefly explain how GIS is used in groundwater exploration works.
33. What is wave refraction and wave breaking? What are the depositional features of wave action?
34. Briefly explain the various features of Karst topography. Explain how they are produced.

(2 × 10