

**22U216S**

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Name: .....

Reg. No: .....

**SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023**

(CUCBCSS-UG)

**CC15U GL2 B03 – DYNAMIC GEOLOGY AND GEOINFORMATICS**

(Geology - Core Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

*Draw diagrams wherever necessary.*

I. Answer all the 10 questions. Write in one word.

1. The breakage and sweeping of big rocks by the sheer force of the river is termed as \_\_\_\_\_
2. \_\_\_\_\_ is a narrow, deep valley with steep to straight sides.
3. Depressions in the stony beds of highland streams that are more or less round in shape.
4. \_\_\_\_\_ is the ratio of the volume of pores to the volume of bulk rock.
5. An icicle-shaped formation that hangs from the ceiling of a cave, produced by precipitation of minerals from water dripping through the cave ceiling.
6. Well from which water flows under natural pressure without pumping.
7. An isolated rock hill or ridge that rises abruptly from a gently sloping or level surrounding plain.
8. A set of waves created by an earthquake, which reaches the surface of the sea is known as \_\_\_\_\_
9. Steep-sided narrow entrance-like feature in glaciers at the coast where the stream meets the coast.
10. Name a software used for Geospatial analyses.

**(10 × 1 = 10 Marks)**

II. Write short notes on any ten of the following questions in one or two sentences each.

11. Plunge pools.
12. Alluvial fans.
13. Saltation.
14. Deltas.
15. Permeability.
16. Georeferencing

17. Playas
18. Karst topography.
19. Perched water table.
20. Glacial ages.
21. Projection in GIS.
22. Moraine.

**(10 × 2 = 20 Marks)**

III. Write short essay on any five of the following questions in a paragraph each.

23. Drainage patterns.
24. Types of aquifers.
25. Spatial data analysis.
26. Coral reefs and types.
27. Types of glaciers
28. Geological work of oceans.
29. Aquifers and types.
30. Application of GIS in mineral exploration.

**(5 × 6 = 30 Marks)**

IV. Write long essays of any *two* of the following questions.

31. Write an essay on components of Geographic Information System. Explain types of data in GIS.
32. Describe the geologic work of streams. Add a note on erosional and depositional land forms.
33. Describe the geologic work of wind. Add a note on erosional and depositional land forms.
34. Give an account on continental margins and ocean floor topography.

**(2 × 10 = 20 Marks)**

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