

**19U210S**

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Name: .....

Reg. No. ....

**SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2020**

(CUCBCSS – UG)

**CC15U GL2 B03 – DYNAMIC GEOLOGY & GEO INFORMATICS**

(Geology - Core Course)

(2015 to 2018 Admissions - Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

I. Answer *all* questions:

1. The holding up of small particles of sand, silt and mud by the water as the stream flows is called .....
2. An isolated hill of bedrock standing conspicuously above the general level of the surrounding area
3. Streams which get their water from the groundwater is called .....
4. .... forms when stalactites and stalagmites meet.
5. A dark coating on rocks found in arid regions, composed dominantly of fine-grained clay minerals containing black manganese oxide and red iron oxide
6. An isolated area of vegetation in a desert, typically surrounding a spring or similar water source
7. The bowl –shaped hollows present at the glacier valley heads in the mountains are called .....
8. Smooth oval-shaped ridge-like structures composed mainly of glacial till.
9. Type of drainage pattern typically develop where sedimentary rocks have been folded or tilted and then eroded to varying degrees.
10. A long ridge of sand and coarse silt, developed by a stream on its flood plain.

**(10 x 1 = 10 Marks)**

II. Answer any *ten* in one or two sentences:

11. Geysers
12. Aquifuge
13. River cascades
14. Oxbow lake
15. Barchans
16. Ripple marks
17. Porosity

18. Stalagmites
19. Vector data
20. Atolls
21. U shaped valley
22. Roches moutonnées

**(10 x 2 = 20 Marks)**

III. Answer any *five* questions in a paragraph each:

23. Water table
24. Add a note on ocean currents
25. Sediment transportation by streams
26. Functions of GIS
27. Drainage patterns
28. River delta
29. Application of GIS in urban planning
30. Stream profile

**(5 x 6 = 30 Marks)**

IV. Write essays on any *two* of the following:

31. Explain the geologic work of the wind with a detailed account on the Aeolian landforms.
32. Elucidate the term Aquifer. Add a note on the confined and unconfined aquifers.
33. Define Geographic Information System (GIS) and its components. Add a note on the application of GIS in groundwater exploration.
34. Describe the Karst topography and its associated landforms

**(2 x 10 = 20 Marks)**

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