

18U210

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Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019

(Regular/Supplementary/Improvement)

(CUCBCSS – UG)

CC15U GL2 B03 – DYNAMIC GEOLOGY AND GEO INFORMATICS

Geology - Core Course

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

Drew Sketches wherever necessary.

I. Answer **all** questions:

1. An upward-growing mound of a calcareous deposits that have precipitated from water dripping onto the floor of a limestone cave.
2. Crescent shaped dunes which have triangular appearance in cross section.
3. Streams which get their water from the groundwater.
4. Drainage pattern of rivers caused by steep slopes are called.....
5. A rock hill, shaped by the passage of glacier to give a smooth up-glacier side and a rough down-glacier side.
6. An isolated underwater volcanic seamount with a flat top.
7. Mode of transportation in which heavy sediments are bounced along the river.
8. A formation which neither absorbs nor transmits water.
9. Circular oceanic reef system surrounding a large central lagoon.
10. A data consists of rows and columns of cells, in which the cell store a unique value.

(10 x 1 = 10 Marks)

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

- 11 Potholes.
- 12 Braided stream.
- 13 Pediment.
- 14 Hog-back.
- 15 Aquitard.
- 16 Tombolo.
- 17 Ventifacts.
- 18 Parabolic dune.
- 19 Piedmont glacier.
- 20 Swash and backwash.
- 21 Tides.
- 22 Spatial data.

(10 x 2 = 20 Marks)

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

- 23 Perched Aquifer.
- 24 Artesian well.
- 25 Karst topography.
- 26 Raster and Vector data.
- 27 Moraines.
- 28 Coastal depositional landforms.
- 29 Application of GIS in geology.
- 30 Youth stage of river.

(6 x 5 = 30 Marks)

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

- 31 Define the geologic work of streams with a detailed account on the fluvial landforms.
- 32 Elucidate the term glaciers. Add a note on the landform features developed by glaciers.
- 33 Explain Geographic Information System (GIS) and its principal functions. Add a note on the application of GIS in mineral exploration.
- 34 Describe the morphology of the ocean floor with suitable sketch.

(2 x 10 = 20 Marks)
