

16U220

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Name:

Reg. No:

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY-2017

(Regular/Supplementary/Improvement)

(CUCBCSS – UG)

CC15U GL2 B03 – DYNAMIC GEOLOGY & GEOINFORMATICS

(Core Course: Geology)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 80 Marks

Draw neat sketches wherever necessary.

I. Answer *all the ten* questions:

1. A body of sediment deposited at the mouth of a river is called _____.
2. The phenomenon of development of youthful topographic features in a landmass having stable features.
3. The relative ease with which water moves through the interstices of the rock.
4. Which is the geological agent that produces Karst topography?
5. The pebbles faceted by the abrasive effects of wind-blown sand are called _____.
6. The group of topographic features made up of unstratified, unsorted deposits of till.
7. Which is the greatest known depth in the ocean?
8. Which is the concept that is central to a GIS and which is the main difference between a GIS and a computer mapping system?
9. The end points of an arc in a digital geographic database are called _____.
10. A device in GIS used for scanning an image and converting it into numerical format.

(10 x 1 = 10 Marks)

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

11. Consequent stream.
12. Knick point.
13. Aquiclude.
14. Inselberg.
15. Piedmont glacier.
16. Drumlins.
17. Tides.
18. Guyots.
19. Geoinformatics.
20. Georeferencing.
21. Transformation and Projection.
22. Overlay functions.

(10 x 2 = 20 Marks)

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

- 23. Drainage patterns.
- 24. Zones of subsurface occurrence of water.
- 25. Types of aquifers.
- 26. Glacial erosional landforms.
- 27. Geological works of oceans.
- 28. Mid-oceanic ridges.
- 29. Types of GIS data.
- 30. Application of GIS in mineral exploration.

Time: Three Hours

(5 x 6 = 30 Marks)

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

- 31. Describe the geological work of streams. Add a note on the important fluvial erosional landforms.
- 32. Give an account of the geologic work of wind and the major aeolian depositional landforms produced.
- 33. Explain the types and origin of coral reefs.
- 34. What is GIS? Describe the various components of GIS.

(2 x 10 = 20 Marks)

(10 x 1 = 10 Marks)

II. Answer any ten questions in one or two sentences each:

- 11. Consequent stream.
- 12. Knick point.
- 13. Apiclude.
- 14. Inselberg.
- 15. Piedmont glacier.
- 16. Drumlins.
- 17. Tides.
- 18. Guyots.
- 19. Geoinformatics.
- 20. Georeferencing.
- 21. Transformation and Projection.
- 22. Overlay functions.

(10 x 2 = 20 Marks)