15U220 (Pages: 2) Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, JUNE 2016

(CUCBCSS – UG)

(Core Course: Geology)

CC15U GL2 B03 – Dynamic Geology & Geoinformatics

(2015 Admission)

Time: Three Hours Maximum: 80 Marks

(Draw sketches wherever necessary)

I. Answer all the ten questions:

1. Alluvial deposit at the mouth of a river.

2. The zone below the phreatic surface which is fully saturated with water.

3. A stream that has continuous flow in parts of its stream bed all year round during years of normal rainfall.

4. Shallow lake which spread over a large area in deserts.

5. A type of map especially designed to show a particular theme connected with a specific geographic area.

6. An underwater plain in the deep ocean floor, usually found at a depth between 3000 to 6000m.

7. Total measure of porous spaces in a unit volume of rock space.

8. A loamy deposit formed by wind, usually yellow.

9. Geographic data that can be represented by visual elements like points, lines and polygons.

10. The longest river in Kerala. **(10x1=10 Marks)**

II. Answer any ten in one or two sentences. (Illustrations required)

11. Artesian well

12. Sink holes

13. Drainage basin

14. Rip current

15. Meanders

16. Stream rejuvenation
17. Consequent rivers
18. Attrition
19. Atoll
20. Geo referencing
21. Raster data
22. Wave refraction **(10x2=20 Marks)**

III. Answer any five questions in a paragraph each. (Illustrations required)

23. Basic components of GIS
24. Application of GIS in ground water studies
25. Drainage pattern
26. Types of aquifers
27. Origin of coral reefs
28. Depth zones of sea and their characteristics
29. Geysers and hot springs
30. Development of a river valley

(6x5=30 Marks)

IV. Write essays on any two of the following:

31. Describe the geological action of wind. Add a note on features developed by the erosion and deposition.
32. Describe the geological action of Ocean .Briefly describe the landscapes developed by the wave action.
33. Describe the geological work of streams. Add a note on erosional and depositional land forms.
34. Describe the types of data models in GIS and explain the layer concept.

(2x10=20 Marks)

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