

**22U118S**

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Name: .....

Reg. No.....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022**

(CUCBCSS-UG)

(Regular/

**CC15U GL1 B01 - EARTH SYSTEMS AND PROCESSES**

(Geology - Core Course)

(2015 to 2018 Admissions - Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

*Draw diagrams wherever necessary.*

I. Answer *all* questions. Write in one word.

1. Giant cloud of dust and gas in space.
2. The lowest layer of Earth's atmosphere.
3. \_\_\_\_\_ method give rocks an actual date or date range in numbers of years.
4. Instruments used to record the motion of the ground during an earthquake.
5. Name the discontinuity that occurs within Earth's interior at a depth of about 2,900 km below the surface.
6. The giant planets of the outer solar system are referred to as \_\_\_\_\_
7. The breakdown of rock by acidic water to produce clay and soluble salts.
8. Masses of snow, ice, and rocks that fall rapidly down a mountainside.
9. Long but narrow large-scale depression in the Earth's crust containing very thick deposits.
10. The greenhouse gas responsible for most global warming.

**(10 × 1 = 10 Marks)**

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

11. Global Warming.
12. Lithosphere.
13. Meteorite.
14. Liquefaction.
15. Shield Volcano.
16. Mohorovicic Discontinuity.
17. Mercalli's Scales.
18. Dendrochronology.
19. P-wave shadow zone.

20. Tsunami.
21. Vesuvian eruption.
22. Planetisimals.

**(10 × 2 = 20 Marks)**

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

23. Layers of the Earth based on compositional variations.
24. Physical weathering.
25. Theories of Isostasy.
26. Major discontinuities and layered structure of the earth.
27. Ozone depletion- causes and effects.
28. Driving forces for a landslide.
29. Nebular hypothesis.
30. Classification of Mountains.

**(5 × 6 = 30 Marks)**

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

31. Describe the origin, distribution and prediction of earthquakes.
32. Write types, causes, effects and prediction of volcanoes.
33. Describe various methods used to find out the age of the Earth.

**(2 × 10 = 20 Marks)**

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