

21U121S

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Name:

Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CUCBCSS-UG)

CC15U GL1 B01 - EARTH SYSTEMS AND PROCESSES

(Geology - Core Course)

(2016 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

Draw diagrams wherever necessary

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

1. The scale used to measure the magnitude of earthquake.
2. Name the volcano that produces low viscosity lava and spreads far from the source.
3. _____ is the slow downslope movement of material under gravity.
4. _____ dating methods puts geologic events in chronological order without requiring that a specific numerical age.
5. The point where movement occurred which triggered the earthquake is the _____
6. Meteorites composed essentially of iron and nickel are called as _____
7. The composition of Earth's core constitute _____ and _____
8. The greenhouse gas responsible for most global warming.
9. What is the general term for periods of mountain-building that include folding, faulting, magmatism and metamorphism?
10. Type of weathering in which the top layer of rocks exposed to sun gets peeled away as shells.

(10 × 1 = 10 Marks)

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

11. Define Asteroid.
12. Vesuvian eruption.
13. Stratosphere.
14. Asthenosphere.
15. Caldera.
16. Chemical weathering.
17. Debris flow.
18. Relict mountains.

19. Geosyncline.
20. Spheroidal weathering.
21. Tsunami.
22. Gutenberg discontinuity.

(10 × 2 = 20 Marks)

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

23. Products of volcanism.
24. Physical weathering.
25. Ozone depletion- causes and effects.
26. Layered structure of Earth.
27. Types of mass wasting.
28. Landslides- causes and remedies.
29. Nebular hypothesis.
30. Seismic waves and types.

(5 × 6 = 30 Marks)

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

31. Classify mountains. Comment on the origin and distribution of mountains.
32. Describe various methods used to find out the age of the Earth.
33. Write causes, effects and prediction of Earthquake. Write a short note on measurement of Earthquake.

(2 × 10 = 20 Marks)
