

18U132

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Name:.....

Reg.No:.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

CC15U GL1 B01 - EARTH SYSTEMS AND PROCESSES

(Geology - Core Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

Draw neat sketches wherever necessary

Part A

Answer *all* questions. Each question carries 1 mark.

1. What is the age of the earth?
2. Where is asteroid belt is situated?
3. Which seismic wave causes maximum damage during earthquake?
4. A surface at which velocities of seismic waves change abruptly.
5. The scale that is used to measure the magnitude of an earthquake.
6. A roughly circular bowl-shaped depression in the ground caused by volcanic activity.
7. A natural process that warms the Earth surface by preventing the sun's heat energy from radiating back into space.
8. Name the mass of glacial ice that covers the land surrounding it and extending more than 50,000 square kilometers.
9. Linear, narrow trough of subsidence of the Earth's crust within which vast amounts of sediment accumulate.
10. Streams of flowing ice that are confined within steep walled valleys, often following the course of an ancient river valley.

(10 x 1 = 10 Marks)

Part B

Answer any *ten* questions. Each question carries 2 marks.

11. Epicenter and hypocenter.
12. Meteorites.
13. Green house gases.
14. Seismograph.
15. Elastic rebound theory.
16. Pyroclastic materials.

17. Lava types.
18. Slide and slump.
19. Global warming.
20. Biosphere.
21. Creep.
22. Isostasy.

(10 x 2 = 20 Marks)

Part C

Answer any *five* questions. Each question carries 6 marks.

23. Structures of atmosphere.
24. Landslide preventive measures.
25. Give an account on interior of the Earth.
26. Seismic waves.
27. Determination of the age of the Earth.
28. Classification of volcanoes based on different types of eruption.
29. Origin and effect of Tsunami.
30. Hydrologic cycle.

(5 x 6 = 30 Marks)

Part D

Answer any *two* questions. Each question carries 10 marks.

31. Describe different hypothesis on the origin of the Earth.
32. What is weathering? Explain different type of weathering, controlling factors and significance of weathering.
33. Describe briefly on diastrophic processes. Add an account on types of Mountains and Theories of mountain building process.
34. Write an essay on orgin, causes, effects, predictions and distribution of Earth quakes.

(2 x 10 = 20 Marks)
