

15U121

Name:

Reg. No.....

FIRST SEMESTER DEGREE EXTERNAL EXAMINATION DECEMBER/JANUARY 2015-1
(2015 Admission)

CC15UGL1B01- EARTH SYSTEMS AND PROCESSES (Core)

Time : Three hours

Maximum : 80 Marks

Draw neat sketches wherever necessary.

I. Write in one word or one phrase on all *ten* of the following questions.

1. The gas that constitutes the highest percentage by volume of pure dry air in the atmosphere.
2. The term "biosphere" was coined by the geologist _____ in 1875.
3. The greenhouse gas responsible for most global warming.
4. The measure of degree of damage and destruction an earthquake can cause.
5. The _____ is the largest ocean, both in surface area and volume.
6. What is the hypothesis put forward by Chamberlin and Moulton in 1904 for the origin of earth?
7. The half life period of C-14.
8. Lines joining points of equal earthquake intensities.
9. What is the name given to the most important belt of volcanoes on the earth?
10. Linear troughs of subsidence of the Earth's crust within which vast amounts of sediment accumulate.

(10 X 1 = 10 marks)

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

11. Hydrosphere
12. Hydrological cycle
13. Asteroids
14. Big bang theory
15. Richter scale

16. Seismograph
17. Focus and epicentre
18. Caldera
19. Orogeny and Epeirogeny
20. Exfoliation
21. Isostasy
22. Mass wasting

(10 X 2 = 20 marks)

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

23. Biosphere and its interaction with other spheres
24. Ozone depletion – causes and effects
25. Gas dust cloud hypothesis
26. Types of mountains.
27. Origin, classification and distribution of earthquakes
28. Types of volcanic products
29. Chemical and Biological weathering
30. Causes and remedial measures of landslides

(5 X 6 = 30 marks)

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

31. Give an account of the layered structure of the earth's atmosphere.
32. Describe the Radioactive and Non-radioactive methods of determination of earth's age.
33. Illustrate the Earth's interior highlighting on the different layers and discontinuities.

(2 X 10 = 20 marks)
