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Name.....59

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014**

(UG—CCSS)

Open Course—Geology

GL 5D 03—UNDERSTANDING THE EARTH

(2010 Admission onwards)

Time : Three Hours

Maximum Weightage : 30

*Illustrate your answers with neat sketches wherever necessary.*

I. Objective Type Questions. Answer *all* twelve questions :

- 1 The primary rocks formed by solidification of magma.
- 2 The person who first proposed the theory of continental drift based on palaeontological and palaeoclimatic data.
- 3 The scientific study of earthquakes.
- 4 The process of scaly peeling off of rocks as layers.
- 5 According to widely favoured view, the core of the earth is made up of :
  - (a) Copper and Aluminium
  - (b) Iron and Nickel.
  - (c) Sodium and Calcium.
  - (d) Aluminium and Magnesium.
- 6 The instrument used to measure magnitude of an earthquake :
  - (a) Seismograph.
  - (b) Seismogram.
  - (c) Terrameter.
  - (d) Seismometer.
- 7 The most violent type of all volcanic eruptions :
  - (a) Strombolian type.
  - (b) Plinian type.
  - (c) Pelean type.
  - (d) Vesuvian type.
- 8 The type of soil found 10 the states of Maharashtra, Madhya Pradesh, Gujarat, etc., highly suitable for the growth of cotton :
  - (a) Red soil.
  - (b) Alluvial soil.
  - (c) Lateritic soil.
  - (d) Black soil.
- 9 The ——— discontinuity marks the lower boundary of the crust of earth.
- 10 The geological process of external origin that are restricted to the surface of the earth are called ——— processes.
- 11 Flat topped seamounts or tablemounts are called ———.
- 12 ——— are the seismic waves responsible for most of the destructive force of an earthquake.

(12 × ¼ = 3 weightage)

Turn over

II. Short Answer Type Questions. Answer all *nine* questions :

- 13 What are the two layers of the earth's crust ?
- 14 What are the factors responsible for formation of metamorphic rocks ?
- 15 What are the four major recognized oceans of the world ?
- 16 What is a 'Tsunami' ?
- 17 What are 'moraines' ?
- 18 What is 'Richter scale' ?
- 19 Define 'epicentre'.
- 20 What is 'solifluction' ?
- 21 What are 'barchans' ?

(9 × 1 = 9 weig

III. Short Essay Type Questions. Answer any *five* questions :

- |                                |   |
|--------------------------------|---|
| 22 Concept of rock cycle.      | 23 Sea floor spreading.                 |
| 24 Coastal landforms.          | 25 Products of volcanoes.               |
| 26 Seismic belts of the world. | 27 Causes and prevention of landslides. |
| 28 Physical weathering.        |   |

(5 × 2 = 10 weig

IV. Essay Type Questions. Answer any *two* questions :

- 29 Explain the plate tectonic theory highlighting on the different kinds of plate margins
- 30 Give an account of the ocean bottom topography.
- 31 Describe briefly the geological action of running water highlighting on the erosion depositional features produced.

(2 × 4 = 8 weig