

C 80140

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Name.....

Reg. No. **3.2**.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2015

(UG-CCSS)

Elective Course—Geology

GL 6B 20 (E 04)—ENVIRONMENTAL GEOLOGY

Time : Three Hours

Maximum : 30 Weightage

Part A

Answer all questions.

Each question carries $\frac{1}{4}$ weightage.

I. Answer all twelve questions :—

- 1 Type of hazards caused by the operation of natural earth surface processes.
 - (a) Exogenic hazards.
 - (b) Exogenic hazards.
 - (c) Atmospheric hazards.
 - (d) None of the above.
- 2 Fastest moving seismic wave :
 - (a) P-waves.
 - (b) S-wave.
 - (c) L-waves.
 - (d) Waves.
- 3 Land degradation in arid and semi-arid areas caused by human activities and climatic changes :
 - (a) Reclamation.
 - (b) Desertification.
 - (c) Land filling.
 - (d) Urbanization.
- 4 _____ is the unconsolidated material that from rock particle and other organic matter.
 - (a) Coal.
 - (b) Fossil.
 - (c) Soil.
 - (d) Lignite.
- 5 An ailment caused by the excess intake of fluoride.
- 6 A common natural hazard met in the highland areas of our state.
- 7 The main reason for Ozone depletion.
- 8 The rigid rocky layer of earth that overlies asthenosphere.
- 9 The tool commonly used for earthquake hazard assessment.
- 10 Quality of water based on the hydrogen ion concentration is _____.
- 11 The greatest source of energy at earth's surface.
- 12 The gigantic wave generated from an earthquake.

($12 \times \frac{1}{4} = 3$ weightage)

Turn over

2
Part B

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II. Answer *all* nine questions in not less than 100 words each :

- 13 Risk analysis.
- 14 Man-made hazards.
- 15 Land fills.
- 16 Waste disposal.
- 17 Hydrosphere.
- 18 Non-renewable resource.
- 19 BOD.
- 20 Nuclear waste.
- 21 Wind energy.

(9 × 1 = 9 weightage)

Part C

III. Describe any *five* of the following in not less than 200 words each :

- 22 Causes and impacts of climate change.
- 23 Hazard zonation map.
- 24 Heavy metal pollution.
- 25 Ozone depletion.
- 26 Desertification.
- 27 Impact of river sand mining.
- 28 Risk assessment.

(5 × 2 = 10 weightage)

Part D

IV. Answer any *two* of the following in not less than 1,000 words each :

- 29 Write an essay on earthquake. Add a note on the preventive measures for the related calamities.
- 30 Describe Environmental Impact Assessment. Add a note on environmental impact of urbanization.
- 31 What are wetlands ? Describe the need of its protection.

(2 × 4 = 8 weightage)