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Roll No

CE - 304

B.E. III Semester

Examination, December 2012

Engineering Geology

Time : Three Hours

Maximum Marks : 70/100

Note: Attempt Five questions. All questions carry equal marks.

1. Enumerate the theories related to origin of the earth. Explain Nebular theory in detail.

Or

2. Write notes on the following :

- a) Radioactive dating techniques.
- b) Interior of the Earth.

3. Write short notes on the following :

- a) Cleavage of Minerals.
- b) Hardness of Minerals.
- c) Symmetry elements of Crystals
- d) Rock forming minerals.

Or

4. Write physical properties of the following minerals:

- a) Quartz
- b) Asbestos
- c) Hematite
- d) Calcite
- e) Bauxite

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5. Describe the various engineering geological properties of the following rocks:

- a) Gneiss
- b) Basalt
- c) Marble
- d) Sandstone

Or

6. Write notes on the following :

- a) Economic mineral deposits of India.
- b) Brief Geological history of India.

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7. What are Faults? What are the causes of fault? Describe with neat sketches the classification of Faults.

Or

8. Write notes on the following :

- a) Unconformities
- b) Parts of Folds

9. What are Tunnels? Discuss the geological factors taken into account while tunneling through rocks. Add a note on the uses of tunnels.

Or

10. Write short notes on the following :

- a) Engineering considerations required to minimize the losses due to seismic shocks.
- b) Role of structural features in construction of dam.
