

Roll No. ....

**2044**

**B. E. (3rd Sem.) Civil Engg.**

**Examination – December, 2011**

**ENGG. GEOLOGY**

**Paper : CE-209 - E**

*Time : Three hours ]*

*[ Maximum Marks : 100*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complain in this regard, will be entertained after examination.*

**Note :** Attempt any *five* questions.

1. (a) Describe importance of Engineering Geology in the planning and execution of civil engineering projects. 10
- (b) Describe in brief the crust, the mantle and core of the earth. 10
2. (a) Enumerate different geological agents, explain work done by any one of them. 10
- (b) Describe briefly positive and negative effects of river floods. 10
3. (a) Define and differentiate a rock and a mineral. 10

- (b) Give classification of rock forming minerals. Describe any three physical properties of such minerals. 10
4. (a) Describe in tabular form the comparison between Igneous, Sedimentary and Metamorphic rocks. 10
- (b) What is a fault ? What are causes of faulting of rocks ? 10
5. (a) What do you understand by surface flow water and ground-water. Why re-charging of water is necessary ? 10
- (b) What is the function of Aquifer ? Describe briefly confined and unconfined Aquifer. 10
6. (a) Describe various remote sensing techniques for geological and hydrological survey investigations. 10
- (b) How will you ascertain suitability of site for a tunnel boring work ? 10
7. Write short notes on any *four* : 4 × 5
- (a) Moh's Scale of hardness,
- (b) Anticline and syncline folds,
- (c) Magma,
- (d) Dip and strike,
- (e) Stress minerals,
- (f) Batholith.
-