

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.
-