

Code :R7310106

R7

III B.Tech I Semester(R07) Supplementary Examinations, May 2011
ENGINEERING GEOLOGY
(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Explain the following terms:
 - (a) Weathering of rocks
 - (b) Erosion of rocks
 - (c) Denudation
2.
 - (a) Define a mineral, a rock and an ore.
 - (b) Explain the important physical properties of minerals that are commonly studied for their identification.
3. Describe with the help of neat sketches, various parts of faults as understood in structural geology. What are broadly accepted causes of faulting of rocks?
4. Explain the classification of sedimentary rocks giving suitable example.
5. Define earthquakes & tsunamis. What are the effects of earthquakes? What are the precautionary measures taken in the construction of buildings in earthquake prone zones?
6. Write short notes on:
 - (a) Resistivity method.
 - (b) Gravitational method.
 - (c) Seismic method.
7. Explain the geological factors influencing water tightness and life of reservoirs.
8. What is a geological structure? How the geological structures are responsible for the failure of any tunnel alignment? Explain.
