

R09

Code No: 09A50103

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B. Tech III Year I Semester Examinations, May/June – 2013

Engineering Geology
(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

1. What is weathering? What are the main geological agents of weathering? Write about weathering of common rock like 'Granite'. [15]
- 2.a) Define Rock. Give a brief classification of metamorphic rocks.
b) Explain texture and structures of metamorphic rocks. [15]
3. Explain various indirect causes of occurrence of landforms. [15]
4. Give short notes on:
a) cleavage angle
b) types of fractures.
c) Mohr's hardness scale with chemical compositions. [15]
5. Write short notes on:
a) Normal fault
b) Angular unconformities.
c) Asymmetrical folds. [15]
- 6.a) What is landslides and explain effects of landslides.
b) Write a note on plate tectonics and earthquake distribution. [15]
- 7.a) What is aquifer? Explain types of aquifers.
b) What is the importance in dam construction, and explain stages of investigation in the selection of a dam site. [15]
8. What is tunnel? Explain the importance of geological structures in tunneling. [15]
