

IV B.Tech I Semester Supplementary Examinations, April/May 2005
ENGINEERING GEOLOGY
(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. "The knowledge of geology is very essential at planning stage, design stage and construction stage of any Civil Engineering project". Justify this statement with a reference to a Dom site selection.
2. (a) What are the requirements to be fulfilled by a Mineral.
(b) Discuss the characteristics of crystal.
(c) What are the common rock forming minerals.
3. What are the common diagnostic characters of sedimentary rocks? Explain why they occur in this group only and not in igneous or metamorphic rocks?
4. Compare and contrast the following pairs of metamorphic rocks.
(a) Quartzite and Marble
(b) Gneiss and Schist
(c) Gneiss and Slate.
5. Describe the following briefly with neat sketches.
(a) Plunging folds.
(b) Enechelon faults.
(c) Sheet joints.
(d) Non conformity.
6. Give detailed account lithology, structure of distribution, formation, fossils and classification economic importance of **Deccan Traps**.
7. Write short Notes on:
(a) Solifluction
(b) Debris Slide
(c) Creep
(d) Indirect Causes of Landslide.
8. Write Short Notes on :
(a) Different purposes of tunnels

- (b) Tunnels faulted strata
- (c) Tunnels in folded strata.

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