

Code: 9A01505

**R09**

B.Tech III Year I Semester (R09) Regular & Supplementary Examinations December 2014

**ENGINEERING GEOLOGY**

(Civil Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 Describe in detail the types of weathering of rocks. Add a note on the weathering pattern in civil engineering constructions.
- 2 What is mineral .Describe the various physical properties of minerals.
- 3 What are rocks? How are they classified? Add a note on the importance of rocks in civil engineering works.
- 4 Classify and describe the different types of faults. Give the various minor structures found in the fault zones. Discuss the effects of faulting on various engineering projects.
- 5 How does the distribution of earthquake's foci correlate with the three types of plate boundaries? What precautions should generally be taken while doing construction in the earthquake affected areas?
- 6 What is vertical electrical sounding? Describe the field work and interpretation of field data involved in sounding method.
- 7 What are dams and reservoirs? Explain the purpose of construction of major dams and reservoirs in India.
- 8 Explain about:
  - (a) Lining of tunnels.
  - (b) Economical aspects of tunneling.
  - (c) Purposes of tunneling.

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