

Code No: R22015

R10**SET - 1****II B. Tech II Semester Supplementary Examinations, April-2018****ENGINEERING GEOLOGY**

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks
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1. a) Explain about the importance of Physical Geology and Petrology? (8M)  
b) Explain about the Mohr's Scale of Hardness with examples? (7M)
2. a) Write about the Physical properties of the following rock forming minerals : (8M)  
i) Quartz ii) Jasper  
b) Write about the Physical properties of the following Economic minerals : (7M)  
i) Hematite ii) Bauxite
3. a) Write about the Megascopic study of Basalt and Shale rocks? (8M)  
b) Explain about the importance of structural Geology with respect to Civil Engineering? (7M)
4. Describe about different types of Faults with neat sketches? (15M)
5. Explain about the Geo-physical study by Gravity method and Magnetic methods with neat sketches? (15M)
6. What is water table and explain about the importance and protective measures of preservation and recharge of Ground water? (15M)
7. a) Explain about Major and Minor Principle Stresses in Rock Mechanics? (8M)  
b) Explain about the Geological factors influencing the water Lightness and life of reservoirs? (7M)
8. a) Explain about the lining in Tunneling? (8M)  
b) Explain about the role of Geological Considerations in Tunneling? (7M)