

**II B. Tech II Semester Regular Examinations, August/September - 2021**  
**ENGINEERING GEOLOGY**  
(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit  
All Questions carry **Equal** Marks

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- 1 a) Discuss the scope of geology in civil engineering [8M]  
b) Describe briefly about engineering geology. [7M]
- Or
- 2 a) Explain the weathering process of rock. [8M]  
b) Write the branches of geology. Explain Economic geology in detail. [7M]
- 3 a) Explain foliated and non-foliated rocks. [8M]  
b) Write any five physical properties of mineral. [7M]
- Or
- 4 a) What is metamorphic rock? Write the composition uses of shale, slate and marble [8M]  
b) What is igneous rock? Explain properties any three igneous rocks. [7M]
- 5 a) What is a fault? Discuss the various types of faults. [8M]  
b) Classify folds and faults in rocks and explain how they influence the design of dams. [7M]
- Or
- 6 a) Explain significance of outcrop study in civil engineering. [8M]  
b) Define recumbent fold and overturn fold. [7M]
- 7 a) Explain the any two ground water exploration techniques. [8M]  
b) Write the importance of geophysical methods. [7M]
- Or
- 8 a) Explain the seismic method in geophysical investigation. [8M]  
b) Define water table. Explain the geological controls of ground water movement. [7M]
- 9 Discuss the influence of geology in tunnel. Write the benefits of lining of tunnels. [15M]
- Or
- 10 Discuss the various geology considerations for constructions of reservoir. [15M]

