

I B. Tech I Semester Supplementary Examinations, July/August-2023**ENGINEERING GEOLOGY**

(Only for Civil Engineering)

Time: 3 hours

Max. Marks: 70

*Answer any five Questions one Question from Each Unit**All Questions Carry Equal Marks***UNIT-I**

1. a) Explain the different types of physical and chemical weathering [7M]
 b) Define river and river system. Give a detail geological work of rivers. [7M]

(OR)

2. a) Write the Importance of Geology in Civil Engineering with one case studies [7M]
 b) Explain about River deposition and explain importance of study of rivers in Civil engineering. [7M]

UNIT-II

3. a) Explain how are the sedimentary rocks formed? Describe the various structures present in the rocks [7M]
 b) Explain important physical properties of minerals that are commonly studied for their identification [7M]

(OR)

4. a) Give a detailed account of the chemical composition, physical properties, origin, and uses of Feldspar group minerals [7M]
 b) Write the importance of different physical properties in mineral identification. [7M]

UNIT-III

5. a) What are the parts of FAULTS and give their types with sketches. [7M]
 b) What are conformable beds? Explain the types of Conformity. [7M]

(OR)

6. a) Explain the advantages to study the branch of structural geology? Write and explain various faults with the help of neat sketches. [7M]
 b) Enumerate the unconformity its types, mechanism and their importance in civil engineering. [7M]

UNIT-IV

7. a) Write the importance of seismic refraction methods. [7M]
 b) Explain about the importance of Geophysical Methods. [7M]

(OR)

8. a) Explain the preventive measures for constructions of buildings in Earthquake prone areas. [7M]
 b) Write the factors are influencing electrical Resistivity and give their, classification. [7M]

UNIT-V

9. a) Explain Earthquake magnitude, Earthquake Intensity, Earthquake focus and Earthquake tening. [7M]
 b) Describe the Water Table and types of Ground Water. [7M]

(OR)

10. a) What are Dams and Reservoirs? Discuss the different types of dams giving geological reasons. [7M]
 b) What are the associated rock types are influenced by Reservoirs. Explain with sketches. [7M]

