

**3E1212****3E1212****B.Tech. III Sem. (Main) Examination, April/May - 2022****Civil Engineering****3CE4-08 Engineering Geology****Time : 2 Hours****Maximum Marks : 70****Instructions to Candidates:**

*Attempt all ten questions from Part A. All five questions from Part B and three questions out of Five questions from Part C.*

*Schematic diagrams must be shown wherever necessary. Any data missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

*Use of following supporting material is permitted during examination. (Mentioned in form No. 205)*

**PART - A**

(word limit 25)

**(10×2=20)**

1. Write scopes of Geology in Civil Engineering?
2. Describe unconformity in rocks?
3. Define fracture mineral properties?
4. Explain the term erosion?
5. Discuss about the Geological time scale?
6. Explain the texture of Metamorphic rocks?
7. What are engineering properties of rocks?
8. Differentiate structural geology and engineering geology?
9. What are the types of weathering?
10. Describe the terms fold and fault?

[ersahilkagyan.com](http://ersahilkagyan.com)**PART - B**

(word limit 100)

**(5×4=20)**

1. Describe the features formed by river erosion?
2. Classify different types of faults?
3. Explain the texture and structure of sedimentary rocks?

4. Describe the seismic method for subsurface analysis?
5. Differentiate the various processes of Metamorphism?

### **PART - C**

(Any three)

**(3×10=30)**

1. Explain the field and in - situ test for site construction?
  2. Discuss the recognition of fold in field also classify folds?
  3. Describe the geological consideration for site selection of Dam?
  4. Discuss the application of Remote sensing and GIS in various fields of Civil Engineering?
  5. Describe the Geophysical methods applied to civil Engineering for subsurface analysis.
-