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Roll No. to be filled in your Answer Book

Roll No.

B.Tech.

Civil Engineering, Sem-IV

Engineering Geology (TCE-404)

Time- 3 Hours

Max marks: 50

NOTE:

- All questions are compulsory.
- Draw diagrams wherever necessary.
- iii. All questions carry equal marks. .
- 1. Attempt any **Two** parts of the following.

5 X 2

- (A) Define Mineral. Describe the physical properties of minerals in brief
- (B) Explain the Suitability of Rocks as an Engineering material
- (C) Engineering consideration of Faults?
- (D) What is the difference between true dip and apparent dip?
- 2. Attempt any Two parts of the following

5 X 2

- (A) Draw a neat diagram of a fault and a fold showing all the different parts.
- (B) What are unconformities? How are they classified.
- (C) Why study of Dip and Strike is important in engineering practice.
- (D) What are joints? Briefly classify various kind of Joints.
- 3. Attempt any One parts of the following

10X1

- (B) Differentiate the confined and unconfined aquifer with the help of neat diagram.
- (C) What are tunnels? What are the uses of tunnels? Discuss various aspects of geological investigation to be undertaken to select a site for tunnel

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4. Attempt any One parts of the following

10X1

- (A) Write Short notes on
 - a. Syncline
 - b. Anticline
 - c. Porosity
 - d. Permeability
 - e. Building Stones
- (C) Explain the following in brief
 - (a) Oxides
 - (b) Sulphate
 - 5. Attempt any One parts of the following

10 X 1

- (A) What are folds? Explain various types with the help of neat sketches.
- (C) Discuss the wave generated during the Earthquake in details. (explain with the help of neat diagram)
