

Roll No. 

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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (CE) (Sem.-5)  
**ENGINEERING GEOLOGY**  
Subject Code : BTCE-501-18  
M.Code : 78460

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

**SECTION-A**

**Answer briefly :**

- 1) What is Weathering?
- 2) What is epicenter?
- 3) What is streak of the mineral?
- 4) Define free board of a dam.
- 5) What do you mean by hardness of a rock?
- 6) Differentiate between apparent dip and true dip.
- 7) Define Seismograph
- 8) Give the composition of Quartz.
- 9) Give two examples of sedimentary rocks.
- 10) Define perched water table.

### SECTION-B

- 11) What are diastrophic earth movements and how do they occur? Give examples of diastrophism.
- 12) What are the main types of volcanic eruptions? Discuss in brief the resulting features.
- 13) Discuss the origin, mode of occurrence and distribution of coal in India.
- 14) a) Write in brief about Crystallographic axes and plane of symmetry.  
b) Write a note on measurement of velocity of sound in rock.
- 15) What is groundwater? Briefly describe the groundwater provinces of India.

### SECTION-C

- 16) What is metamorphism? Name the metamorphic equivalents of Sandstone and Shale.
- 17) Discuss the various causes of faulting? Add a note on engineering significance.
- 18) a) What is soil erosion? How do you prevent soil erosion? Discuss in detail.  
b) What is land sliding? How do you prevent land sliding? Discuss in detail.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**