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Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech.(CE) (2011 Onwards) (Sem.-3)**  
**ROCK MECHANICS & ENGINEERING**  
Subject Code : BTCE-302  
Paper ID : [A1114]

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 have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****1. Write briefly :**

1. What is a River Meandering phenomenon?
  2. Differentiate between Shale and Schist.
  3. What is Non Unconformity?
  4. What is strike slip fault?
  5. Differentiate between Permeability and Porosity.
  6. What is Flat Jack Test used for?
  7. What is Rock Bolting?
  8. Define **any two** feature produced by Wind Erosion.
  9. Classification of joints based Geometry.
  10. Differentiate between *Uniaxial* and *Triaxial* compressive strength.
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**SECTION-B**

2. Discuss features produced by Wind deposition.
3. Explain salient features of a GRAVITY Dam.
4. Draw a diagram of Fold and label various part of a Fold.
5. Explain different properties of various Earthquake Waves.
6. Discuss in brief Rock Stabilization by Grouting.

**SECTION-C**

7. Differentiate between NORMAL and REVERSE Fault. Describe engineering consideration adopted in civil engineering projects in faulted terrain.
8. Describe in detail geological work performed by the Glaciers along with resulting features.
9. Describe in detail *in situ* Shear Tests.