Roll No.	Total No. of Pages: 02
----------	------------------------

Total No. of Questions: 09

B.Tech. (CE) (Sem.-3)

ROCK MECHANICS & ENGINEERING

Subject Code: BTCE-302 (2011 Batch)

Paper ID: [A1114]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

I. Answer briefly :

- i) Differentiate between HORST & GRABEN.
- ii) What are the typical characteristics of "P" Waves?
- iii) Draw a sketch of FOLD showing various parts.
- iv) What are the different causes of Landslides?
- v) Between Sandstone and Limestone which rock is having higher porosity and why?
- vi) What is Flat Jack Test used for?
- vii) What are the different types of bolts used for Rock Bolting?
- viii) What is FROST ACTION?
- ix) What is a Disconformity?
- x) What is Triaxial compressive strength?

SECTION-B

- 2. Discuss features produced by Deposition of Gl
- 3. Discuss salient features of a GRAVITY Dam.
- 4. Explain how do you recognize FAULTS in the
- 5. Discuss different properties of various Earthqu
- 6. Write a short note on Compressive Strength.

SECTION-C

- Classify JOINTS based on Geometry. Discuss of joints.
- Discuss Depositional features produced by Glacie for engineering projects in glaciated terrain.
- 9. Using PLATE Bearing Test describe in detail rocks is measured?