

***B. Tech Degree VII Semester Examination
November 2005***

**CE 705 (B) ADVANCED CONSTRUCTION TECHNIQUES
AND FIELD QUALITY CONTROL
(2002 Admissions onwards)**

Time : 3 Hours

Maximum Marks : 100

(All questions carry EQUAL marks)

- I. Explain different methods of sound insulation for walls and thermal insulation for roofs.
OR
- II. Briefly explain different methods of pre-stressing.
- III. Briefly explain different operations in making a tunnel in rock.
OR
- IV. Write short notes on *any two* of the following :
- (i) Geosynthetics
 - (ii) Use of construction chemicals
 - (iii) Ferro cement.
- V. Make a check list for supervision of Brick Masonry and Random Rubble Masonry.
OR
- VI. Write short notes on *any two* of the following :
- (i) Shoring
 - (ii) Piling
 - (iii) Caissons.
- VII. List tests to be carried out on Road Aggregates and describe *any two* tests.
OR
- VIII. List tests to be carried out on Bitumen and describe *any two* tests.
- IX. List the Eight Quality Management Principles and describe *any two* of them.
OR
- X. Explain Quality Management System Requirement of *any two* of the following :
- (i) Management review and role of management representative
 - (ii) Internal auditing
 - (iii) Mandatory procedures.