

## ***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.