

## ***B. Tech Degree VII Semester (Supplementary) Examination July 2010***

### **CE 705 (B) ADVANCED CONSTRUCTION TECHNIQUES AND FIELD QUALITY CONTROL (2002 Scheme)**

Time : 3 Hours

Maximum Marks : 100

- I. “Light construction techniques help in the reduction of self weight, effecting economy, speed and modular type of constructions”. Elucidate the statement with examples and latest techniques. (20)
- OR**
- II. Explain the methods of thermal insulation in buildings and air conditioning. (20)
- III. Write an essay on soil reinforcements and applications of geosynthetics. (20)
- OR**
- IV. Explain any two of the following :- (20)
- (i) Application of ferro cement
  - (ii) Use of construction chemicals
  - (iii) Rock blasting
- V. Specify the importance of inspections during construction works of (20)
- (i) Centering and shuttering
  - (ii) Under ground constructions
- OR**
- VI. Prepare inspection check lists for the following :- (20)
- (i) Site developments
  - (ii) Under water works
- VII. Write a brief essay on the IRC standards with respect to materials and designs. (20)
- OR**
- VIII. Designate various tests to be carried out on bitumen and explain any two tests. (20)
- IX. State ten quality management principles and explain any two of them. (20)
- OR**
- X. Write short notes on the following :- (20)
- (i) Quality policy
  - (ii) Inspection standards
  - (iii) Quality manual
  - (iv) System auditing.

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