

## ***B. Tech Degree VII Semester Examination, November 2008***

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

Time : 3 Hours

Maximum Marks : 100

(All questions carry EQUAL marks)

- I. Explain the purpose of sound insulation and different methods of sound insulation for walls and roofs.
- OR**
- II. Explain the principle of pre-stressing of concrete and explain different methods of pre-stressing
- III. Explain the different operations in making a tunnel through rock.
- OR**
- IV. Write short notes on any two of the following :-
- (i) Ready Mix Concrete
  - (ii) Construction chemicals
  - (iii) Geosynthetics
- V. List the items to be checked while supervising casting of a Reinforced Cement Concrete slab and make a check list.
- OR**
- VI. Write short notes on any two of the following :-
- (i) Piling
  - (ii) Shoring
  - (iii) Scaffolding
- VII. Name the tests to be carried out on road aggregates and describe any two tests.
- OR**
- VIII. Name the tests to be carried out on bitumen and describe any two tests.
- IX. Name the eight Quality Management Principles and describe any two of them.
- OR**
- X. Write short notes on any two of the following :-
- (i) Internal Audit
  - (ii) Management review and role of Management Representative
  - (iii) Mandatory procedures.

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