

D 21784

(Pages : 2)

Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION  
DECEMBER 2011**

Civil Engineering

CE 04 802—CONSTRUCTION ENGINEERING AND MANAGEMENT

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

1. (a) Write the importances of construction management.  
(b) Define 'Slack' and 'Critical path'.  
(c) List out the factors to be considered for selection of equipment.  
(d) Define RMC and mention its applications.  
(e) Enumerate the general conditions of contract.  
(f) Abbreviate ISO and BIS and mention their functions.  
(g) Define EOQ with an example.  
(h) Briefly explain the concept of Ethics in Profession.

(8 × 5 = 40 marks)

2. (a) (i) Write the importances of Network Techniques and their applications.  
(ii) Distinguish between PERT and CPM and state where they are used.

*Or*

- (b) (i) Explain the term 'Layout Planning' with regard to construction.  
(ii) Explain briefly the process involved in equipment schedule.

3. (a) (i) List out the factors to be considered for the selection of equipment.  
(ii) Enumerate the basic needs for establishing a concrete mixing plant.

*Or*

- (b) Explain elaborately, the types of hauling and hoisting equipments used in construction projects.

4. (a) Write short notes on :

- (i) Standardisation techniques.
- (ii) Tenders and Documents.
- (iii) Security deposit and its need.

*Or*

- (b) Write an elaborate notes on methods of quality control on construction projects with live examples.

**Turn over**

5. (a) Discuss the concept of materials management, and its importances in the construction scenario with examples.

*Or*

- (b) (i) Distinguish between dependent demand and independent demand.  
(ii) Explain the implementation of safety programmes and their merits.

(4 × 15 = 60 marks)