

**FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/  
TECHNOLOGY-OCTOBER 2012**

**CONSTRUCTION MANAGEMENT AND SAFETY ENGINEERING  
(Common to CE,AR,QS,EN & WR)**

[Time: 3hrs]

[Maximum marks: 100]

**PART-A**

I. Answer all questions in one or two sentences. (Each question carries equal marks)

1. What is the significance of Administrative sanction?
2. Define critical path?
3. What is meant by material at site?
4. State the function of a Power shovel?
5. Define the term Quality policy.

(5\*2=10)

**PART-B**

II. Answer any five questions. (Each question carries six marks)

1. What is the need for construction management?
2. Explain item rate contract and write down its advantages. ?
3. What is meant by pre measurement? Give any two examples.
4. Write down and briefly explain the classification of stores?
5. What are the machineries used in concreting?
6. What are the concepts of an entrepreneur?
7. Write down the steps to be taken to prevent the accident?

(5\*6=30)

**PART -C**

Answer one full question from each unit. Each question carries 15 marks

**UNIT- 1**

- III. a. Draw the organizational structure of Kerala PWD? 8
- b. Draw a network diagram and explain its preparation? 7

**OR**

- IV. a. What is an approximate estimate? Explain any three? 8

b. What are the factors involved in construction management?

7

## UNIT - II

V. a). Write down the legal aspect of contract? 8

b. Explain the term specification. State the importance of enforcement of specification? 7

OR

VI. a). Briefly explain the following terms.

1. Short Tender notice

2. Work order

3. Measurement Book

4. EMD

8

b). What are the recoveries made from the bill? 7

## UNIT - III

VII. a). Briefly explain the following terms.

1. Tools and Plants

2. Indent

3. Demurrage

4. Write off

8

b). List the name of earth moving equipments and write the uses of any four?

7

OR

VIII. a). Define human resource management. Explain the following

1.Labour welfare

2.Role of trade unions ?

8

b).What is meant by materials management? Write short note on optimum use of materials? 7

## UNIT - IV

IX. a). What are the general principles of safety in construction(any eight)? 8

b). Define TQM? Write any five elements of quality system? 7

OR

X. a). What are the common characteristics of a Technocrat? 8

b). List the different agencies promoting small scale industries. 7