

FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY —MARCH, 2014

CONSTRUCTION MANAGEMENT AND SAFETY ENGINEERING

(Common to CE, AR, QS, EN and WR)

[Time : 3 hours

(Maximum marks : 100)

PART—A

(Maximum marks : 10)

Marks

I Answer all questions in one or two sentences. Each question carries 2 marks.

1. What is the significance of budget provision ?
2. Define critical path.
3. What is meant by M-book ?
4. State the function of a vibrator.
5. Define Total Quality Management.

(5×2=10)

PART—B

(Maximum marks : 30)

II Answer *any five* of the following questions. Each question carries 6 marks.

1. What are the factors involved in construction management ?
2. Explain percentage contract and write down its advantages.
3. What is meant by pre measurement ? Give any two examples.
4. What are the points to be specified in the contract when supply of certain items from the store ?
5. Write short note on optimum use of materials.
6. What are the expectations from an entrepreneur ?
7. Write down the steps to be taken to prevent the accident.

(5×6=30)

PART—C

(Maximum marks : 60)

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

UNIT—I

- | | |
|--|---|
| III (a) Draw the organizational structure of Kerala State PWD. | 8 |
| (b) Draw a network diagram and explain activity, event and duration. | 7 |

OR

	Marks
IV (a) List different types of approximate estimate and explain any three.	8
(b) What are the objectives of construction management.	7
UNIT—II	
V (a) Name and briefly explain any four types of contracts.	8
(b) Distinguish between permanent and work charged establishment.	7
OR	
VI (a) Briefly explain the following terms :	
(i) Tender notice (iii) Check measurement	
(ii) Work order (iv) Negotiation	8
(b) Name the different modes of payment. Briefly explain any two.	7
UNIT—III	
VII (a) Briefly explain the following terms :	
(i) Materials at site (iii) Stock register	
(ii) Indent (iv) Write off	8
(b) List the different equipments used in concreting and write their uses.	7
OR	
VIII (a) Define human resource management. Explain the following :	
(i) The necessity of training the employees	
(ii) Role of trade unions.	8
(b) What is meant by materials management ? Explain the selection of materials as per standards.	7
UNIT—IV	
IX (a) State the basic guide lines followed for safety in construction industry (any eight).	8
(b) Define ISO 9000 and write any six elements of quality system.	7
OR	
X (a) Distinguish between advantages and disadvantages in entrepreneurial motivation.	8
(b) Name the various agencies promoting small scale industries.	7