

TED (10)–3030

Reg. No. ....

(REVISION—2010)

Signature .....

FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/  
TECHNOLOGY—OCTOBER, 2013

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

[Time : 3 hours

(Maximum marks : 100)

Marks

PART—A

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

1. Define feasibility report.
2. What is the significance of earnest money deposit ?
3. Define the term tools and plants.
4. Who is a technocrat ?
5. What is meant by powers of sanction ?

(5×2=10)

PART—B

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

1. Distinguish between administrative sanction and technical sanction.
2. List and briefly explain the various stages of construction.
3. What are the advantages of item rate contract ?
4. Write any six documents to be included in the tender.
5. Explain the terms surplus stores and write off.
6. Write any six general principles of safety in construction.
7. What are the merits of ISO 9000 ?

(5×6=30)

PART—C

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

UNIT—I

- III (a) What is meant by an organizational structure ? Draw the organizational structure of Kerala PWD at Superintending Engineer level. 8
- (b) What are the needs for construction management ? 7

OR

- IV (a) What are the points to be covered in a project report (write any eight) ? 8
- (b) Compare between the CPM and the PERT. 7

## UNIT—II

- V (a) Briefly explain the following :
- (i) Works register (ii) Security deposit (iii) Sampling (iv) Lump sum contract. 8
- (b) Write the important points that should be included in the tender notice. 7

OR

- VI (a) Write the general conditions of contract (any eight). 8
- (b) List and explain briefly the different types of establishment. 7

## UNIT—III

- VII (a) List any eight points to be noted at the time of selection of an excavation equipment. 8
- (b) Differentiate selection, appointment and recruitment of workers. 7

OR

- VIII (a) Briefly explain the following terms :
- (i) Trade union (ii) Demurrage (iii) Ready mix plants (iv) Indent 8
- (b) List the name of any six earth moving equipment and write the use of any two. 7

## UNIT—IV

- IX (a) Write the precautions to be taken during handling of materials (any eight). 8
- (b) Differentiate between entrepreneurial style and managerial style. 7

OR

- X (a) List the elements of quality system (any eight). 8
- (b) Write the assistance programme for small business enterprises. 7