

TED (15) – 5012

(REVISION — 2015)

Reg. No.

Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2017**

CONSTRUCTION MANAGEMENT AND SAFETY ENGINEERING

[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. Define construction management.
2. What is tender ?
3. Define human resource management.
4. Write any four types of earth moving equipment.
5. Define the term quality control.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Distinguish between administrative sanction and technical sanction.
2. State any four uses of network analysis.
3. What are the advantages of piece work contract ?
4. What are the information included in tender notice ?
5. What is trade union ? Explain the main function.
6. List any four characteristic of an entrepreneur.
7. List out any twelve elements of total quality management.

(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) What are the limitations of Bar chart ? 5
(b) Draw the organizational set up of Kerala State PWD. 10

OR

- IV (a) List out the function of construction management. 5
(b) Explain the details to be collected during planning and preparation of the project report. 10

UNIT — II

- V (a) What is meant by comparative statement in tenders ? 7
(b) What are the different types of bills ? Explain checking of bills. 8

OR

- VI (a) What are the advantages of item rate contract ? 7
(b) Explain clearly :
(i) First and final bill (ii) Running account bill 8

UNIT — III

- VII (a) What are the external sources of recruitment ? 7
(b) Explain with neat sketch how the Drag line can be operated. 8

OR

- VIII (a) Explain with neat sketch power shovel. 7
(b) Write any six objectives of material management. 8

UNIT — IV

- IX (a) What are the benefits by implementing ISC-9000 quality system standards ? 7
(b) What are the safety practices that are to be followed ?
(i) Scaffolding (ii) Excavation work 8

OR

- X (a) Explain any seven precautions to handling hazardous material. 7
(b) Compare BIS standards with ISO standards 8