

TED (10) – 3030

Reg. No. ....

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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 the term construction management.
2. What is meant by free float ?
3. Distinguish between contract and contractor.
4. What is demurrage charge ?
5. Define the term quality system.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. State the objectives of construction management.
2. What are the objectives of programming.
3. Write any six principles of supervision.
4. In what situations the organization of stores is necessary.
5. Describe the operation of power shovel.
6. Write any six prevention of accidents in an industry.
7. State any four merits of ISO 9000.

(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) Describe the needs for construction management. 7

- (b) The following sequence of activities are given, A & B are performed concurrently and start of the project, A must precede C & D, E must follow C, F dependent on both E & D, G must follow B, J must follow G, K is the last and begin only after J. H, F are completed. Prepare the network for the project and calculate the completion time of the project.

Activity	A	B	C	D	E	F	G	H	J	K
Duration	2	2	4	1	6	3	2	6	5	12

8

OR

IV (a) Write organizational set up of Public Work Department. 7

- (b) Define feasibility report. What are the main points to be contained in this report. 8

## UNIT — II

V (a) Explain Lumpsum contract and item rate contract. 7

- (b) Define tender notice. State the informations to be furnished in the tender notice. 8

OR

VI (a) What is meant by pre measurement ? Explain any two cases when pre measurements are taken. 7

- (b) State the general instructions that should be followed while preparing a bill. 8

## UNIT — III

VII (a) State any seven objectives of human resource management. 7

- (b) Describe the procedure for the following.

(i) Maintaining the Stock register.

(ii) Accounting Shortage and surplus. 8

OR

VIII (a) Define materials management and what are the aims of materials management. 7

- (b) Write short notes on compaction machinery and lifting machinery. 8

## UNIT — IV

IX (a) Describe the basic concept of entrepreneurship. 7

- (b) State any eight basic guidelines for safety in construction. 8

OR

X (a) State the requirements to become a licensed surveyor and contractor. 7

- (b) State the elements of quality system. 8