

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2024**

CONSTRUCTION MANAGEMENT AND SAFETY ENGINEERING

(Maximum Marks:100)

(Time: 3 Hours)

PART - A

(Maximum Marks : 10)

Marks

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

1. Define the term construction management.
2. Define a contract.
3. Define Shelf life of material.
4. Define human resource management.
5. Full form of MSME

(5 x 2 = 10)

PART - B

(Maximum Marks: 30)

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

1. Explain detailed estimates and revised estimates.
2. Explain comparative statements in tenders.
3. Define imprest money.
4. Explain the process of recruitment and selection of staff.
5. Define demurrage and Wharfage.
6. List out the basic principles of safety in construction.
7. List the characteristics of a technocrat.

(5 x 6 = 30)

PART – C

(Maximum Marks: 60)

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

UNIT - I

- III (a) Explain time motion study. (8)
- (b) Compare CPM with PERT (7)

OR

- IV (a) Compare resource leveling and resource smoothing. (8)
(b) Explain the duties and responsibilities of superintending engineer. (7)

UNIT – II

- V (a) List out the rules to be followed while recording measurements in Mbook. (8)
(b) Differentiate between final bill and first & final bill. (7)

OR

- VI (a) What are the need of quality control in construction projects? (8)
(b) What are the conditions for validity of a contract? (7)

UNIT – III

- VII (a) Write short note on (i) Labour welfare (ii) Trade unions (8)
(b) List any 7 hoisting equipments. (7)

OR

- VIII (a) Define the terms:
(i) Indent (ii) Invoice (iii) Wharfage (iv) Demurrage (8)
(b) Explain ABC principle in stores management. (7)

UNIT – IV

- IX (a) Discuss the features between managerial and entrepreneurial style. (8)
(b) Explain the role of entrepreneur nation building. (7)

OR

- X (a) Compare between BIS and ISO. (8)
(b) Explain various ISO standards and relevance of each type. (7)
