

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2025**

CONSTRUCTION MANAGEMENT AND SAFETY ENGINEERING

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

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

1. Define bar charts.
2. List two project management software packages.
3. Define Tender.
4. List any two types of stores.
5. Write the full form of TQM. (5 x 2 = 10)

PART-B

[Maximum Marks: 30]

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

1. Explain any two types of construction projects.
2. Classify different project management tools.
3. Explain any two types of contract.
4. State the importance of quality control.
5. State the salient features of workmen compensation act.
6. Write down the specific use of any two construction equipments.
7. Explain the importance of entrepreneurship. (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 the details to be collected during planning and preparation of detailed project report. (7)
- b. Explain the organizational structure of PWD and duties of officers. (8)

OR

- IV. a. Compare CPM and PERT. (6)
- b. The following details are available regarding a project.

Activity	Predecessor Activity	Duration (Weeks)
A	-	3
B	A	5
C	A	7
D	B	10
E	C	5
F	D,E	4

Determine the critical path and the project completion time. (9)

UNIT – II

- V. a. Explain the detailed procedure for tendering. (7)
- b. Classify different types of bills and the situation in which they are adopted. (8)

OR

- VI. a. Explain the rules for taking measurements and recording it. (7)
- b. List various deductions made from the bill and explain their purpose. (8)

UNIT- III

- VII. a. State the importance of HR management in construction organization. (7)
- b. Explain the objectives of store keeping. (8)

OR

- VIII. a. Describe different methods adopted for HR development and increase productivity. (7)
- b. Identify the factors related to selection of construction equipments. (8)

UNIT - IV

- IX. a. State the role of supervisor in maintaining safety at site. (7)
- b. Identify the organizations supporting entrepreneurship and state their role. (8)

OR

- X. a. Explain various safety practices to be followed at project site. (7)
- b. Explain various ISO standards and the relevance of each type. (8)
