

TED (21) 5011
(Revision – 2021)

Reg. No:
Signature:

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

Construction management and safety engineering

[Maximum Marks: 75]

[Time: 3 Hours]

PART-A

- I. Answer *all* the following questions in one word or one sentence. Each question carries ‘one’ mark.**

(9 x 1 = 9 Marks)

Module Outcome Cognitive level

1.	What is mean by organization?	M1.01	R
2.	List any two types of organization.	M1.02	R
3.	Define activity	M2.02	R
4.	Define bar chart.	M2.03	R
5.	Define construction contract.	M3.01	R
6.	Define Target contract	M3.04	R
7.	Define material management.	M2.04	R
8.	List out causes of accidents in project site.	M4.01	R
9.	List out any two basic principles of safety.	M4.01	R

PART-B

- II. Answer any *eight* questions from the following. Each question carries ‘three’ marks.**

(8 x 3 = 24 Marks)

Module Outcome Cognitive level

1.	Identify Role of various personnel in construction organization.	M1.01	R
2.	Mention three types of organization and explain any one.	M1.03	U
3.	List out and explain principles of organization.	M1.01	R
4.	Explain inventory control by ABC technique.	M2.04	U
5.	Draw cost slope and explain.	M2.02	U
6.	Identify the factors related to selection of equipment.	M3.04	U
7.	What are the procedures for e- tender.	M3.01	U
8.	Explain Negotiated contract.	M3.03	U
9.	List out what are the effects of accidents.	M4.03	U
10.	What is Labour Laws and Acts pertaining to Civil construction activities	M4.01	R

PART-C

Answer all questions. Each question carries 'seven' marks

(6 x 7 = 42 Marks)

Module Outcome Cognitive
level

III.	What are the factors affecting site layout?	M1.01	R
	OR		
IV.	Draw a detailed site layout.	M1.04	U
V.	Explain Normal Time and Cost, Crash Time and Cost.	M2.02	U
	OR		
VI.	Differentiate between PERT and CPM	M2.03	A
VII.	Identify different modern equipment used in construction projects.	M3.04	U
	OR		
VIII.	Describe procedures involved in arbitration and settlement.	M3.02	R
IX.	What are the safety practices at construction site (fire)	M4.01	R
	OR		
X.	What is the role of supervisor/ Engineer in ensuring safety at construction site.	M4.02	U
XI.	Describe types of disputes in construction management.	M1.04	U
	OR		
XII.	List out precautions in handling hazardous materials.	M4.04	U
XIII.	List out what are the precautions in drawing Network.	M2.03	A
	OR		
XIV.	Explain inventory control by VED technique	M2.04	U