

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

BUILDING CONSTRUCTION AND CONSTRUCTION MATERIALS

[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)

		<small>Module Outcome</small>	<small>Cognitive level</small>
1.	List any two artificial building materials.	M1.01	R
2.	Define slaking of lime.	M1.02	U
3.	Suggest two industrial waste materials used in the construction field.	M2.04	A
4.	State the constituents of Plaster of Paris.	M2.03	R
5.	Define distempers.	M2.04	R
6.	Give the category of Group A and Group C classification of buildings as per NBC.	M3.01	R
7.	List any two types of Shallow foundations.	M3.04	R
8.	List the two types of stone masonry.	M4.01	R
9.	Define pitched roof.	M4.04	U

PART-B

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

(8 x 3 = 24 Marks)

		<small>Module Outcome</small>	<small>Cognitive level</small>
1.	Draw a neat labeled diagram showing the cross section of an exogenous tree.	M1.03	U
2.	State the functions of silica and alumina in brick earth.	M1.04	R
3.	Discuss the properties of mild steel.	M2.02	U
4.	Enumerate any three methods of water proofing.	M2.03	R
5.	Suggest and justify the use of a modern cladding material for public building.	M2.04	A
6.	Enumerate the features of a cavity wall.	M3.02	U
7.	Suggest the situations of providing combined footing with proper justification.	M3.04	U
8.	List the merits and demerits of steel formwork.	M4.02	R
9.	Differentiate between Lifts and Escalators.	M4.03	U
10.	Define the terms used in roof-Ridge piece, Common rafter and Wall plate.	M4.04	U

PART-C

Answer 'all' questions from the following. Each question carries 'seven' marks.

(6 x 7 = 42 Marks)

		Module Outcome	Cognitive level
III.	Explain the different methods of Seasoning of timber. OR	M1.03	R
IV.	Describe the process of manufacturing of bricks.	M1.04	R
V.	Suggest the suitability of different types of flooring materials. OR	M2.01	A
VI.	Discuss the properties and uses of Plywood.	M2.02	R
VII.	Explain any four classifications of glass. OR	M2.03	U
VIII.	Explain any four types of structural steel sections.	M2.04	U
IX.	Illustrate the different components of a building with a neat sketch. OR	M3.02	U
X.	Explain the suitability of a raft foundation with the help of a sketch.	M3.04	A
XI.	Draw plans of two consecutive courses of 1½ brick wall corner in Flemish bond. OR	M4.01	A
XII.	List the different types of windows and explain any four types.	M4.02	U
XIII.	Describe the different types of lifts based on the purpose. OR	M4.03	U
XIV.	Explain any three common roofing materials and their uses.	M4.04	U
