

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

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 1 mark

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	Give any two examples for recycled materials.	M1.02	R
2	List the constituents of brick earth.	M1.04	R
3	Enumerate any four wooden products.	M2.02	R
4	Differentiate ferrous and non ferrous metals.	M2.03	U
5	List any four Special processed construction materials.	M2.03	R
6	Define cavity wall.	M3.02	R
7	As per KPBR, Educational buildings falls under which occupancy group.	M3.01	R
8	List the types of door.	M4.02	R
9	Define bonding in brick masonry.	M4.01	R

PART B

II. Answer any Eight questions from the following. Each question carries 3 marks.

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	Enumerate any three characteristics of good bricks.	M1.04	R
2	Discuss the uses of bamboo in construction.	M1.03	U
3	Explain any two Industrial waste materials used in construction.	M2.03	U
4	Describe any two advantages and uses of pavement blocks.	M2.01	U
5	List the properties of sound insulating materials. Give examples.	M2.03	R
6	Draw the cross section of wall of a building showing all components.	M3.02	A
7	List the types of shallow foundations.	M3.04	R
8	List down the precautions to be made in brick masonry construction.	M4.01	R
9	Differentiate Rubble masonry and Ashlar masonry.	M4.01	U
10	Sketch the plans of two consecutive courses of a 1 brick thick wall corner in English bond.	M4.01	A

PART C

Answer all questions from the following. Each question carries 7 marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III.	Explain the different methods of seasoning for the preservation of timber.	M1.03	U
	OR		
IV.	Discuss on types of lime and its uses.	M1.02	U
V.	Briefly explain any four wooden products.	M2.02	U
	OR		
VI.	Discuss on any three Agro waste materials used for construction.	M2.03	U
VII.	Describe briefly any three types of flooring materials.	M2.01	U
	OR		
VIII.	List the types of thermal insulating materials and its suitability in construction works.	M2.03	R
IX.	Explain the suitability of pile foundations and give classifications of pile foundation.	M3.04	U
	OR		
X.	Discuss on classification of buildings as per KMBR.	M3.01	U
XI.	Explain any three types of scaffoldings with the help of sketches.	M4.02	U
	OR		
XII.	Draw King Post truss and Queen Post Truss and mark the parts.	M4.04	A
XIII.	Draw plans of two consecutive courses of 1 ½ brick wall corner in Flemish bond.	M4.01	A
	OR		
XIV.	Suggest any three suitable roofing materials to suit site conditions.	M4.04	A
