

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 2023**

BUILDING CONSTRUCTION & CONSTRUCTION MATERIALS

[Maximum Marks : 75]

[Time : 3 hours]

PART-A

I. Answer **all** the following questions in one word or sentence. Each question carries 1 mark.

(9x1=9 marks)

		Module Outcome	Cognitive level
1	Define dressing of stone.	M 1.03	U
2	List any two types of limes used in construction industry.	M 1.02	R
3	List any two industrial waste materials that are used in the construction industry.	M2.03	R
4	List any two rolled steel sections commonly used in buildings.	M2.04	R
5	Name the code of practice for ductile design and detailing of reinforced concrete structures subjected to seismic forces.	M3.03	U
6	Define a framed structure.	M3.02	R
7	Draw the plan of a rectangular combined column footing.	M3.04	U
8	Define English bond in brick masonry.	M4.01	R
9	Define scaffolding.	M4.02	R

PART B

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

(8x3=24)

		Module Outcome	Cognitive level
1	Discuss the main constituents of brick earth.	M1.04	U
2	List the classification of burnt clay bricks.	M1.04	R
3	Write notes on the properties of fly-ash bricks.	M1.04	U
4	Write a brief note on the use of agro waste in civil engineering industry.	M2.03	A
5	Write short notes on Ferro Crete.	M2.03	A
6	Write down the classification of buildings as per NBC.	M3.01	R
7	Write down the different building components and their functions.	M3.02	R
8	Write down any 6 requirements of a good floor.	M3.03	U
9	Define the terms: (a) sill (b) corbel (c) coping	M4.01	R
10	List the different types of stone masonry.	M4.01	R

PART C

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

(6x7=42marks)

		Module Outcome	Cognitive level
III	Discuss the requirements of a good building stone. OR	M 1.03	U
IV	Discuss different methods of seasoning of timber.	M1.03	U
V	Explain any three wood products used in construction industry. OR	M2.02	A
VI	Discuss different types of glass used for construction.	M2.03	U
VII	List and explain the constituents of an oil paint. OR	M2.03	U
VIII	Discuss any four thermal and sound insulating materials used in construction industry.	M2.03	A
IX	Explain the functions of foundation. Also, list the types of shallow foundations. OR	M3.04	U
X	Discuss the conditions where deep foundations are required in any site. Also, list out the different types of deep foundations.	M3.04	A
XI	Draw plans of two consecutive courses of one and half brick wall corner in English bond. OR	M4.01	R
XII	List the different types of roof trusses and draw the line sketch of any two.	M4.04	R
XIII	Outline different roofing materials suitable under different site conditions. OR	M4.04	A
XIV	List the different types of staircases and draw neat figures of any two.	M4.03	U
