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MMPN-003

**MASTER OF BUSINESS
ADMINISTRATION
(CONSTRUCTION MANAGEMENT)
(MBACN)**

Term-End Examination

December, 2025

**MMPN-003 : PLANNING AND CONSTRUCTION
OF BUILDINGS**

Time : 3 Hours

Maximum Marks : 100

Note : (i) Attempt any *five* questions.

(ii) All questions carry equal marks.

1. List out the functional elements of the following buildings : 4×5=20
 - (i) A residential building
 - (ii) A school building
 - (iii) Storage buildings
 - (iv) Industrial buildings

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2. (a) Calcined lime (CaO) hardens by either combining with carbon dioxide or by hydration with water. Give the chemical equation for these processes. 4
- (b) Explain the action of Pozzolanic material in lime mortar. 4
- (c) List the reasons for cracking of lime plaster. 4
- (d) Discuss the different components of rural houses. 4
- (e) Write mortar mixes by volume for brick strength of 15 to 25 N/mm^2 . 4
3. (a) What are the causes of settlement of foundations ? 5
- (b) Explain deep foundations. Describe briefly the use and characteristics of steel piles. 10
- (c) Explain underreamed piles with a suitable diagram. 5

4. (a) What are the processes involved in the construction of plywood partitions in an office building ? 10
- (b) Classify the doors on the basis of their operations and give short description of any *two* with a line diagram. 10
5. (a) Find out how a computer can be used for "estimation and tender document preparation". 6
- (b) List and describe the software names which are available in the market and useful for drawing plan and elevation for a building project. 8
- (c) Discuss any *two* estimating softwares. 6
6. (a) Differentiate with examples and explanation between covered area, plinth area and carpet area. 12
- (b) What are the *two* methods of quantity surveying ? Explain. 8

7. What is the purpose of valuation ? Explain any *six* types of values in valuation. 20
8. Explain the sinking fund method of accounting depreciation in immovable property with an example. 20

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