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220734

**3rd Sem / Civil Engineering**  
**Subject : Building Construction**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is the primary function of a foundation in a building? (CO1)
- a) To provide structural support
  - b) To prevent moisture entry
  - c) To reduce heat loss
  - d) To enhance aesthetic appeal
- Q.2 Which type of wall is designed to resist lateral loads? (CO2)
- a) Load-bearing wall
  - b) Non-load-bearing wall
  - c) retaining wall
  - d) Partition wall

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- Q.3 What is the recommended depth for a shallow foundation? (CO3)
- a) 1-2 times the width of the foundation
  - b) 2-3 times the width of the foundation
  - c) 3-4 times the width of the foundation
  - d) 4-5 times the width of the foundation
- Q.4 Which type of bond is commonly used in brick masonry for exterior walls? (CO4)
- a) English bond
  - b) Flemish bond
  - c) Stretcher bond
  - d) Header bond
- Q.5 What is the purpose of a damp proof course in a building? (CO6)
- a) To prevent moisture entry
  - b) To reduce heat loss
  - c) To improve structural stability
  - d) To enhance aesthetic appeal
- Q.6 Which type of roof is suitable for areas with high rainfall? (CO5)
- a) Flat roof
  - b) Pitched roof
  - c) Gable roof
  - d) Hip roof

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## SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 The process of compacting concrete using a vibrating table is called \_\_\_\_\_. (CO1)
- Q.8 The recommended slope for a roof to ensure water runoff is \_\_\_\_\_. (CO2)
- Q.9 The type of foundation suitable for areas with poor soil conditions is \_\_\_\_\_. (CO3)
- Q.10 The purpose of using a waterproofing membrane in a building is to \_\_\_\_\_. (CO4)
- Q.11 The type of bond used in brick masonry for interior walls is \_\_\_\_\_. (CO1)
- Q.12 The recommended thickness for a plastered wall is \_\_\_\_\_. (CO5)

## SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Describe the construction details of a brick masonry wall using English bond. (CO3)
- Q.14 Explain the difference between load-bearing and non-load-bearing walls (Any two) (CO2)
- Q.15 Explain the purpose of a damp proof course in a building. (Any four) (CO2)

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- Q.16 Describe the different type of surface finishes used in building construction. (CO3)
- Q.17 Explain the concept of dead load and live load in building construction. (CO3)
- Q.18 Describe the construction process of a pitched roof. (CO4)
- Q.19 Enlist the purpose of using a waterproofing membrane in a building. (Any five) (CO4)
- Q.20 Write the short note on foundations used in building construction. (CO4)
- Q.21 Explain the concept of structural stability in building construction. (CO5)
- Q.22 What is the function of Mortar. (CO5)

## SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write the various types of foundations and their suitability for different soil conditions. (CO1)
- Q.24 Describe the various causes of Dampness in Detail (Any Eight causes) (CO6)
- Q.25 Describe the different types of roofs used in building construction, including their advantages and disadvantages. (CO4)

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