

No. of Printed Pages : 4  
Roll No. ....

220734

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

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory  $(6 \times 1 = 6)$

**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

**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

(1)

220734

(2)

220734

## **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)

- 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 pitches 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)