

2021

Building Construction and Drawing in Autocad

Full Marks: 60

Time: Two hours

The figures in the margin indicate full marks for the questions.

A. Multiple Choice Questions

1 x 20=20

1. A shallow foundation is a foundation whose width is
 - a. Greater than breadth
 - b. Equal to the breadth
 - c. Smaller than breadth
 - d. Sometimes greater sometimes smaller
2. Combine footing is used when
 - a. When two columns are very close to each other
 - b. When one of the column lies near the property line
 - c. Both (a) and (b)
 - d. None of the above
3. Which of the following is a deep foundation?
 - a. Raft footing
 - b. Caisson footing
 - c. Strip footing
 - d. Spread footing
4. The strength of brick masonry depend on
 - a. Quality of brick
 - b. Quality of mortar
 - c. Quality of bond
 - d. All of the above
5. Brick masonry should be not be constructed more than _____ cm in

height in a day.

- a. 50 cm
 - b. 70 cm
 - c. 90 cm
 - d. 120 cm
6. For small works, which of the following is most economical as formwork
- a. Steel
 - b. Timber
 - c. Plywood
 - d. Aluminum
7. Scaffolding is used mainly to
- a. Support worker only
 - b. Support worker, equipment and materials
 - c. Support equipment only
 - d. Support construction materials only
8. Which of the following door provide privacy and ventilation?
- a. Flush door
 - b. Framed and paneled door
 - c. Louvered door
 - d. Sliding door
9. Revolving doors are used when:
- a. Door is in continuous use
 - b. To prevent the outside air to come inside
 - c. To prevent the inside air go outside
 - d. All of the above
10. The size of door in a residential building should not be less than in width and height:
- a. 0.9m x 2.0m
 - b. 1.25m x 2.0m
 - c. 1.0m x 20m
 - d. 0.70m x 20m
11. The sash bar is present in which type of window?

- a. Clerestory window
 - b. Skylight
 - c. Dormer window
 - d. Sash window
12. Abutment in an arch is:
- a. An end support
 - b. An intermediate support
 - c. A support that can be present anywhere
 - d. None of the above
13. When the joints are of uniform thickness, the arch is called as:
- a. Rumble stone arch
 - b. Gauge brick arch
 - c. Monolithic concrete gauge arch
 - d. Both (a) and (b)
14. The purpose of lintel in a building is to:
- a. Support the roof slab
 - b. Support masonry above the opening
 - c. Both (a) and (b)
 - d. None of the above
15. Roofs that slopes in two directions is called:
- a. Pent roof
 - b. Hip roof
 - c. Gable roof
 - d. Deck roof
16. Wooden pieces which are placed horizontally on principal rafters to carry the common rafters are known as:
- a. Cleat
 - b. Batten
 - c. Purlin
 - d. Principal rafter
17. In a heavy duty industry which type of flooring is preferred?
- a. Flagstone flooring

- b. Cement concrete flooring
 - c. Mosaic flooring
 - d. Granolithic flooring
18. Newel post are provided:
- a. Only at the starting point of a stair
 - b. At the two ends of a stair
 - c. In between the starting and ending point of a stair
 - d. Only at the ending point of a stair
19. The width of stair in a residential building should be:
- a. 180 cm
 - b. 150 cm
 - c. 120 cm
 - d. 90 cm
20. The main reason for dampness in a building is due to :
- a. Poor materials used in the construction
 - b. Poor workmanship
 - c. Faulty and inappropriate design
 - d. All of the above

B. Very Short Question

2 x 6=12

1. What is a raft foundation?
2. What is a brick masonry?
3. List out four different types of bond in brick masonry.
4. What is a formwork?
5. What are the functions of a window?
6. What do you understand by DPC?

C Short Question

4 x 7=28

1. What are the functions of a foundation?
2. Explain briefly the stretcher bond in brick masonry.
3. What is double scaffolding?
4. What is relieving arch?
5. What are the requirements of a good stair?

6. What are the advantages of reinforced concrete lintel over other types of lintels?
7. What are the requirements of a good roof?
