

B.E. Third Semester (Civil Engineering) (CGS)
10175 : Building Construction & Materials : 3 CE 04

P. Pages : 2

Time : Three Hours



AU - 2496

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Answer **three** question from section A and **three** question from section B.
 3. Due credit will be given to neatness and adequate Dimensions.
 4. Assume suitable data wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.

SECTION - A

1. a) What is the difference between shallow and deep foundation? Explain with neat sketches the various types of shallow foundation. 7
b) Draw a neat sketch to explain the Raft foundation. 7

OR

2. a) What are the main components of building? Explain with neat sketches the function of each components. 7
b) What is meant by load bearing structure? Give the relative advantages & disadvantages of this structures. 7
3. a) Draw plan and isometric view of a 1½ thick brick work in Flemish bond. 6
b) What is the purpose of dressing of stone? Discuss different types of surface finishes employed in stone masonry construction. 7

OR

4. a) Describe the general principles to be observed in brick masonry construction. 6
b) Explain with neat sketches showing plan and elevation of two consecutive courses of 1½ brick thick wall in English bond. 7
5. a) Explain in brief the various roof covering used in pitched roof. 6
b) Explain the method of construction of plain cement tile flooring. 7

OR

6. a) What point will you consider while Fixing G. I. Sheet? 6
b) Explain with neat sketch about the construction of RCC slab flooring. 7

SECTION - B

7. a) Explain:- 4
- i) Height of door and window
 - ii) Width of door and window
- b) Write a brief note on the classification of arches. 7
- c) Define:- 2
- i) Horn
 - ii) Style

OR

8. a) Explain various fixtures and fastenings used for doors and windows. 7
- b) Write a brief note on the classification of lintels. 6
9. a) Draw plan and section of a typical doglegged stair case. Describe various components of it in brief. 7
- b) State advantages of concrete stairs and steel stairs. 7

OR

10. a) Enlist the different types of scaffolding Explain any one of the scaffolding in details. 7
- b) Write down various defects which may Occur in a plastered surface. 7
11. a) State the general measures of fire safety in building. 6
- b) What are the defects caused by dampness in building. 7

OR

12. a) Why joints are essential to be provided in large building? 3
- b) State the purpose of providing cavity wall. 4
- c) Describe in brief about various sound absorbents used in building construction. 6
