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Roll No. :

B020414(020)

**B.Tech, (Fourth Semester) Examination
April-May 2021**

CAICTE (New Scheme)

(Civil Engg. Branch)

BUILDING CONSTRUCTION

Time Allowed : Three hours

Maximum Marks : 100

Minimum Pass Marks : 35

***Note : Attempt all questions. Part (a) is compulsory.
Attempt any two parts from (b), (c) and (d)
of each question.***

Unit-I

1. (a) Define foundation. Why foundation is required in structure justify it.

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- (b) What is strap foundation? Explain with the help of neat sketch. 8
- (c) Write short notes on expansive and non expansive soil. 8
- (d) What are the causes of failure of foundation and its remedial measures? 8

Unit-II

2. (a) Define the term masonry. Name various types of masonry used. 4
- (b) Write short note on brick masonry. Give reasons why brick masonry is preferred over stone masonry. 8
- (c) Give a brief description on slenderness ratio and basic compressive stress. 8
- (d) Write short notes on location of doors and windows. 8

Unit-III

3. (a) What is purpose of providing floors? What are its various components? 4

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- (b) What are the factors that affect the choice of the flooring materials? Explain in details. 8
- (c) Discuss about pitched, flat and curved roof. Name the technical terms used in sloping roof. 8
- (d) What do you understand by the term formwork? What are the requirements of a good form work. 8

Unit-IV

4. (a) Name the causes and effect of dampness. 4
- (b) Discuss about the materials used in damp proofing. Also explain the important function of materials. 8
- (c) Explain various defects occurs in plastering work. 8
- (d) What are the construction joints? Give a detail note on expansion and contraction joints. 8

Unit-V

5. (a) Define Acoustics. 4
- (b) Explain in brief general acoustic defects and suggests remedial measures. 8

- (c) Discuss about the materials used for sound proof construction. 8
- (d) Give a detailed note on fire safety requirements for buildings. 8

Unit-IV

- (a) Discuss about the materials used for sound proofing.
- (b) Discuss about the materials used for fire proofing.
- (c) Explain the importance of fire safety in buildings.
- (d) Explain the fire safety measures in buildings.
- (e) Explain the fire safety measures in buildings.

Unit-V

- (a) Discuss about the materials used for fire proofing.
- (b) Explain the importance of fire safety in buildings.
- (c) Explain the fire safety measures in buildings.