Roll No. _____

END SEMESTER EXAMINATION
SEMESTER- V

COURSE CODE :CE 410 **DURATION : 3 (THREE)HRS**
COURSE TITLE: BUILDING CONSTRUCTION **MAXIMUM MARKS : 75**
SESSION : JULY-DEC'2021 **PASS MARKS : 35 %**

NOTE: *1. Attempt any 5 (five) questions.*
3. Mark for each question is shown against it.
4. Assume suitable logical data wherever necessary.

1. (a) Define **(5)**
(i) Plinth
(ii) Super Structure
(iii) Mercantile Buildings
(iv) Assembly Buildings
(v) Business Buildings

(b) Explain site reconnaissance and the general observation made in site during site reconnaissance. **(5)**

(c) State the objectives of soil investigation. Discuss the Auger boring method of soil investigation. **(5)**

2. (a) Differentiate between foundation and footing. **(4)**

(b) What are the requirements of a good foundation? **(5)**
Explain raft foundation and state its importance.

(c) Explain well foundation and its elements with the help of a neat sketch. **(6)**

3. (a) For better appearance, which bond would you choose between Flemish bond and English bond? Explain it with the help of suitable sketches. **(5)**

(b) State the general principles that has be observed in brick masonry. **(5)**

(c) Define: **(5)**
(i) Bat
(ii) Frog
(iii) Stretcher
(iv) Bond
(v) English Bond

4. (a) Define: **(4)**
(i) Spalls
(ii) Perpeds
(iii) Ashlar Fine Masonry
(iv) Ashlar Rough Tooled Masonry

(b) List down the advantages of using Brick Masonry over Stone Masonry. **(4)**

(c) What do you understand by stone Masonry? Explain any two types of rubble Masonry with the help of suitable sketches. **(7)**

5. (a) Differentiate between partition wall and cavity wall. **(4)**

(b) Explain the different types of brick partition wall. **(6)**

(c) Differentiate between arches and lintel. State the advantages of using RCC Lintel. **(5)**

6. (a) Define: **(4)**

(i) Intrados
(ii) Keystone
(iii) Mullion
(iv) Stile

(b) State the function of doors and windows. Explain battened and ledged door with suitable sketch. **(5)**

(c) Differentiate between **(6)**

(i) Revolving door and sliding door
(ii) Ventilator and clerestory window

7. (a) Distinguished between mosaic flooring and terrazzo flooring. **(3)**

(b) Explain the factors governing the selection of flooring material. **(4)**

(c) Briefly describe the procedure for construction of concrete floor. Mention its relative merits and demerits. **(8)**

8 (a) State briefly the requirements of a good staircase. **(5)**

(b) Draw the plan a sectional elevation of a dog-legged staircase. **(4)**

(c) Describe how dampness can occur in walls, ceilings and floors of a building? What are the bad effects of dampness? **(6)**

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