

BUILDING DRAWING
3rd Exam/Civil/5705/Nov'24
(For 2023 Batch)

Duration: 3Hrs.

M.Marks:50

SECTION-A

Q1. Do as directed any ten of the following.

10x1=10

- a. Define load bearing wall.
- b. DPC stands for _____
- c. A brick construction pattern with alternate courses of brick laid as stretchers and headers forms an _____
- d. 10 DS 21 means a door of _____ module
- e. Protection of rooms from sun heat is called _____
- f. A flat roof should be given a slope of _____ for gravitational flow of water.
- g. Cement concrete flooring is also called _____ flooring
- h. A circular arch is also called _____ arch
- i. The plan drawn with single line showing different positions of rooms with dimensions excluding the thickness of walls is called _____
- j. Define parapet wall.
- k. Define segmental arch.
- l. The part of the wall left in front of the frame of door & window is called _____

SECTION-B

Q2. Attempt any two questions.

2x10=20

- i. Draw the section of wall foundation for 300 mm thick wall by thumb rule.
- ii. Draw cement concrete flooring (Monolithic) finish over ground having 20 mm thick Cement Concrete 1:2:3 topping laid monolithically over 100 mm thick base concrete 1:4:8 over 50mm to 100mm thick layer of hard core dry bricks of stone ballast over 100 mm to 150 mm well rammed sand over consolidated earth. Assume any missing data
- iii. Draw the front elevation & Sectional view of hollow core Flush door 900 X 1900 mm.

SECTION-C

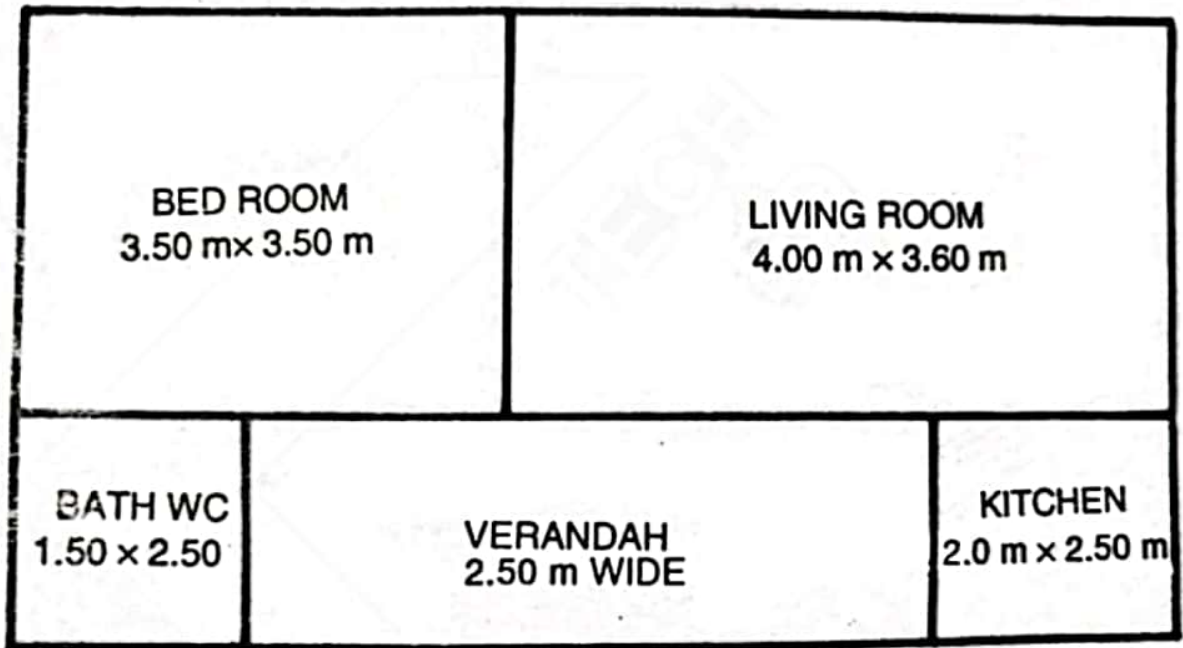
Q3. Attempt any one question.

1x20=20

- a. Draw a detailed plan, front elevation & two cross sections from the given line plan with the following specifications.
 - i. Foundation: Foundation to be 900 mm deep & 900 mm wide
 - ii. Walls: all walls are 300 mm thick.
 - iii. Plinth height = 400 mm
 - iv. D.P.C: provide Horizontal DPC consisting 40 mm thick cement concrete 1:2:4 with 2 coats of bitumen laid hot.
 - v. Flooring: Flooring to be 40 mm thick cement concrete 1:2:4 over 100 mm thick cement concrete over 100 mm thick sand filling.
 - vi. Roofing : Roofing to be 100 mm thick RCC slab covered with 20 mm thick Plaster 1:3 with 2 coats of bitumen laid hot covered with 100 mm rammed earth with mud & mud plaster finishing. Any data not given may be assumed as per standard specifications
 - vii. Joinery: provide doors, windows, almirah, cup board & raised window etc as per requirements.
 - viii. Sunshades: RCC sunshade 450 mm projected from walls ,80 mm thick at the back & 50 mm thick at the free end
 - ix. Lintel: RCC lintel 20 mm thick over verandah opening & 150 mm thick over door & window opening.

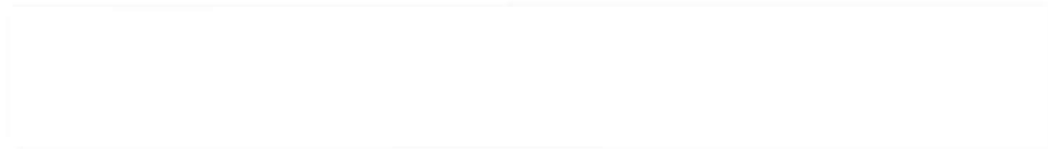
S. B. Roll. No.....

- x. Height of rooms : height of rooms from the floor level to the ceiling upto the bottom of structural slab is 3.0 m



- b. Draw sectional details of Thermal/Heat insulation provisions of RCC Flat roof in the following types.

- i. Hollow king clay tiles embedded in R.C.C
- ii. Artificial or false ceiling in structural slab



P.S.B.T.E. & I.T.