Paper / Subject Code: 50824 / Architectural Planning & Design of Buildings

10/06/25 SE(CIVIL) | Sem II | APROB | R20 cscheme |

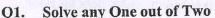
Time: 3hours

Max. Marks: 80

Note:

Q1 is compulsory.

Attempt any three out of the remaining four questions.



20 marks each

Draw the Plans of a Residential Bungalow, as (G+1) storied RCC Framed structure with following facilities. (Plot size is 50 m. × 40 m.)

> Living Room = 22 Sq.m. (i)

Master's Bedroom (with A.T) = 20 Sq.m. (ii)

Bed Room = 18 Sq.m. (iii)

Guest Room = 15 Sq.m. (iv)

(v) Kitchen = 15 Sq.m.

Drawing Room = 22 Sq.m. (vi)

Provide Toilets, Passages as per Bye-laws. Assume Floor to Floor height as 3.0 m. Show position of Columns, Doors, Windows & Ventilators in the proposed PLANS. Draw

Ground Floor PLAN (with Walls) (a)

- 15Marks

First Floor LINE PLAN (Single Line) (b)

-05 Marks

Draw the Plans of a Residential Bungalow, as (G+1) storied RCC Framed structure with B following facilities. (Plot size is 60 m. × 50 m.)

(vii) Living Room = 24 Sq.m.

(viii) Master's Bedroom (with A.T) = 22 Sq.m.

Bed Room = 16 Sq.m. (ix)

Guest Room = 16 Sq.m. (x)

Kitchen = 14 Sq.m. (xi)

(xii) Drawing Room = 20 Sq.m.

Provide Toilets, Passages as per Bye-laws. Assume Floor to Floor height as 3.0 m. Show position of Columns, Doors, Windows & Ventilators in the proposed PLANS. Draw

Ground Floor PLAN (with Walls)

- 15Marks

First Floor LINE PLAN (without walls) (b)

-05 Marks

Solve any Two out of Three Q2.

10 marks each

Draw the front elevation of the building as designed and drawn in Q.1.

Draw the sectional elevation of the building as designed and drawn in Q.1

Explain Principles of Planning of residential buildings in detail.

Solve any Two out of Three Q3.

10 marks each

Draw the site plan of the building as designed and drawn in Q1.

Draw the Foundation Plan & section of one footing as designed for building in Q1.

Write about the Principles of Planning for School building & Procedure for Planning a

small School in a Rural area.

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O4. Solve any Two out of Three

10 marks each

- What are the different types of staircases? Explain all types of staircases in detail along
- A with suitable diagram(s). (with neat sketches)
- B What are the different types of foundations? Explain all with neat sketches.

 Draw the One-point perspective of a clubhouse of size (20 x 12) m. Take floor to floor
- C height as 3 m, plinth height at 450 mm, height of parapet wall at roof level as 1.2 m and height of observer as 1.7 m. Assume all other suitable data, for drawing.

Q5. Attempt the following

10 marks each

- Write about the Principles of Planning for Hospital building & Procedure for Planning a
- A small Primary Health Center in a Rural area.
- B Explain about all PITCHED ROOFS with neat sketches.

Q6. Write Short Notes on any Four out of Six

05 marks each

- A Sun-Path/Wind-Rose diagram
- B Objectives of town planning
- C Rehabilitation of buildings
- D Green building
- E Computer aided drawing