TSE(CIVIL) | Sem III | APDOB | R20 cscheme | 10/06/25.

Time: 3hours **Max. Marks: 80**

Note:
Q1 is compulsory.
Attempt any three out of the remaining four questions.

Q1. Solve any One out of Two **20 marks each**

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

(i) Living Room = 22 Sq.m.
(ii) Master's Bedroom (with A.T) = 20 Sq.m.
(iii) Bed Room = 18 Sq.m.
(iv) Guest Room = 15 Sq.m.
(v) Kitchen = 15 Sq.m.
(vi) Drawing Room = 22 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

(a) Ground Floor PLAN (with Walls) **- 15Marks**
(b) First Floor LINE PLAN (Single Line) **-05 Marks**

B Draw the Plans of a **Residential Bungalow**, as (G+1) storied RCC Framed structure with 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.
(ix) Bed Room = 16 Sq.m.
(x) Guest Room = 16 Sq.m.
(xi) Kitchen = 14 Sq.m.
(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

(c) Ground Floor PLAN (with Walls) **- 15Marks**
(b) First Floor LINE PLAN (without walls) **-05 Marks**

Q2. Solve any Two out of Three **10 marks each**

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

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

C Explain Principles of Planning of residential buildings in detail.

Q3. Solve any Two out of Three **10 marks each**

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

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

C Write about the Principles of Planning for School building & Procedure for Planning a small School in a Rural area.

Q.P. Code:-
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Program Code
1T00633.

Q4. Solve any Two out of Three **10 marks each**

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

B What are the different types of foundations? Explain all with neat sketches.

C Draw the One-point perspective of a clubhouse of size (20 x 12) m. Take floor to floor 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**

A Write about the Principles of Planning for Hospital building & Procedure for Planning 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

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