Roll No ....

CE/FT-305

B.E. III Semester

Examination, June 2015

Building Design and Drawing

Time : Three Hours

Maximum Marks : 70

Note: i)   Answer five questions. One from each unit.

ii)   All parts of each question are to be attempted at one place.

iii) All question carry equal marks.

UNIT - I

1. a)   What is foundation? Describe various types of foundation by drawing neat figure.

b)   Draw the sketch of lintel with Chajja projection.

c)   Write types of flooring and describe the laying procedure for any one type flooring.

OR

2. a)   Draw the figure of any deep foundation and show various parts of it.

b)   Write the different type of stairs and draw their neat sketches.

c)   Describe various types of roof (Any one in detail).

UNIT - II

3. a) What is FAR? Write the exemptions of FAR.

   b) What is set backs, discuss their role for maintaining the percentage built up area.

   c) Write short note on :

   i) NBC

   ii) Unity

   iii) Orientation

OR

4. a) Write 6 building bye-law, enforced in a Jabalpur Municipal Corporations are similar other municipal corporation of MP?

   b) Write short note on :

   i) Mass

   ii) Proportion

   c) Write about the various provision of NBC related to

   i) Basement

   ii) Ventilation in a building

UNIT - III

5. a) Write in short on drainage system for a small residential building.

   b) Write short note on :

   i) Electrification of building

   ii) Thermal insulation of building and materials.

OR

6. a) What provisions are required to achieve target of fire safety in six storied building complex?

   b) Write short note on :

   i) Acoustics of building

   ii) Water supply in a hotel

   iii) Ventilation in stair case

UNIT - IV

7. Plan a residential building on a plot size of 12.25×18.25m with all amenities.

OR

8. Plan and draw line diagram on graph sheet for an office building for Sub Divisional Magistrate at Tahseel head quarter.

UNIT - V

9. a) A rectangular block $4 \times 3 \times 2.5$ cm is lying on the ground plane on one of its longest faces. A vertical edge is in the picture plane and the larger face containing that edges make an angle of $60°$ with the picture plane. An observer is standing 8 cm in front of the picture plane (Centre of vision) and observer's height is 5.0 cm. Draw the perspective view of rectangular block.

   b) Write short note on :

   i) Perspective drawing

   ii) Energy efficient building

OR

10. a) Write various methods of drawing perspective view.

    b) Differentiate one point and two point perspectives.

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