Roll No ....

CE/FT-305
B.E. III Semester
Examination, June 2016
Building Design and Drawing

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

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

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What are the various element of a building?
   b) Define Well foundation.
   c) Draw neat sketch of grillage foundation.
   d) Draw the sketch of various type of lintels showing various terms.

   OR

   Explain the requirement of good stair case. Draw plan and section elevation of dog legged stair showing various elements.

2. a) Define Building bye-laws.
   b) Discuss set backs and its requirements.
   c) Define F.A.R. and state the recommendation for F.A.R.
   d) Discuss the following terms of architectural planning.
      i) Contrast   ii) Mass
      iii) Scale

   OR

   Discuss the following in detail.
      i) Orientation   ii) Roominess
      iii) Grouping

3. a) List the various building services.
   b) Discuss electrification of building.
   c) Discuss the acoustics of building.
   d) Discuss in detail the sanitation and their provisions in a residential building.

   OR

   Discuss the fire safety and thermal insulation of public buildings.

4. a) List the various units to provided in district level hospital.
   b) Discuss the space requirement and dimensions of hostel building.
   c) Draw line sketch of primary school.
   d) Plan and draw to a suitable scale a residence for a post master with the following areas.
      Drawing cum dinning hall - 20 sq.m.,
      Bed room 2 Nos - 12.0 sq.m. each,
      Front and floor verandahs - 2.0 m wide,
      Kitchen cum store - 15 sq.m.
      Study cum office room - 12 sq.m.
      Provide suitable porch, passage, toilets etc. Draw plan only. Use R.C.C. roof.

   OR

   Draw the neat sketch and show various components of panel door.

5. a) Define Perspective Drawing.
   b) Define with sketches centre of vision and vanishing point.
   c) State various postulates of the geometry of the perspective.
   d) Discuss two point perspective with example.

   OR

   Discuss Angular perspective with example.

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