GANPAT UNIVERSITY

B. Tech. 3rd Semester: Civil Engineering

Regular Examination November – December 2014

2CI 304: Building Planning and Design

Time: 3 Hours

Total Marks: 70

10

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- Instruction: 1. Answer to the two sections must be written in separate answer book. 2. Figures to the right indicate full mark.
 - 3. Assume suitable date if required.

Section - I

Que. - 1

A residential building is to be planned in a plot of a 12m X 16m. The 15 maximum FSI is 1.2. Following accommodation is to be provided:

- 1. Drawing room
- 2. Bed room
- 3. Kitchen cum Dining
- 4. Bath and W.C
- 5. Stair

Built up area as per Building bye law. From your design prepare the following:

- a. Floor Plan
- b. Elevation of building

Full detailing should be provided with Schedule table.

OR

Que. - 1

- Draw Plan and Elevation for a residential building 150 m^2 . The **15** following accommodation is to be provided:
 - 1. Drawing room
 - 2. Bed room
 - 3. Kitchen cum Dining
 - 4. Bath and W.C.

Full detailing should be provided with Schedule table.

Draw a Suitable section for plan in Q 1 which you had drawn.

Que. - 2

Que. - 3

- (Draw Section line on plan.)
 - Draw two Point perspective view of a single room building of size 7m **10** X 5m when station point is 10000 mm from picture plane, height of eye level is 1500 mm. It is necessary to provide one door and two windows (each on either side).

- Que. 4 (A) What is building by law? Importance and application of building by laws.
 - (B) Write down the requirements of good stair. Draw layout of stair with its components.

OR

- Que. 4 (A) List out the principal of building planning and explain any three.
 - (B) Write down different types of residential building and also draw any two plan of residential building.
- Que. 5 (A) Define:
 - 1. Plinth Area 2. Character 3. Setback
 - 4. Control line 5. Plan 6.Mezzanine Floor
 - (B) List out principles of architectural composition. Explain any one in detail.
 - (C) Attempt any Three:
 - 1. What is orientation? List out various factors affecting on orientation of building.
 - 2. How many storey's can be constructed for a residential plot 725 m2, if F.S.I is 2.2 the covered area at ground floor is 125 m2.
 - 3. What are the usual requirements of normal residential building? And it's any two salient features.
 - 4. What are the building components?

Oue. - 6 Draw the following question (any Five)

1. Conventional symbol: Double leaf double swing door,

- internal rolling door.
- 2. Conventional sign: Stone, Partition block
- 3. Wall foundation for 0.3 mt thickness wall.
- 4. Conventional symbol: Concrete, Brick.
- 5. Conventional symbol: Pump, Ceiling fan.
- 6. Draw plan of Arched Stair and Quarter Landing Stairs

END OF PAPER

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