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**FT-3002 (CBGS)****B.E. III Semester**

Examination, December 2017

**Choice Based Grading System (CBGS)****Building Planning and Architecture**

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.  
 ii) All parts of each question are to be attempted at one place.  
 iii) All questions carry equal marks.

1. a) Define what is Foundation and explain in detail about various types of foundations.  
 b) What do you mean by the term Building Bye law? Why are they significant? Write down any six bye laws being enforced by your municipal corporation?
2. a) Write about various provisions of NBC related to basement, FAR, Parking Space.  
 b) Explain principle of Building Planning along with their significance.
3. a) What do you mean by Fire Resistance of Building and how it can be measured as per NBC? How the Fire Safety in public building can be ensured?  
 b) Define Orientation of Building. Explain with suitable illustration the various aspects of orientation of building.
4. a) Write a note on Planning of Residential Building.  
 b) Plan and draw a detailed layout diagram for a clinic or health center in rural area.

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5. a) Define the parallel perspective with reference to plan and elevation of the simple object, Cube.  
 b) Plan and draw to a scale of 1:50, a primary school building with the following requirements:
 

i) Six class room	= 60m <sup>2</sup> each
ii) Principal Cabin	= 26m <sup>2</sup>
iii) Staff room	= 30m <sup>2</sup>
iv) Store room	= 35m <sup>2</sup>
v) Two Toilet unit separately for boys and girls	= 15m <sup>2</sup> each
vi) Cultural activity Hall	= 200m <sup>2</sup>
6. Design and draw Plan, Elevation and suitable section of a building having the following accommodation and the plinth area should not exceed 180 sq. meter:
 

i) Bed rooms 2 nos., 3.50m × 5.00m
ii) Drawing cum Dining Room 4.00m × 6.50m
iii) Box Room 2.00m × 2.50m
iv) Kitchen 2.40m × 3.00m
v) Store 2.00m × 2.50m
vi) Bath W.C. Stair and verandah should also be provided.
7. Draw the angular oblique perspective with reference to plan and elevation of the simple object, Cube.
8. Write short notes on :
  - a) Classification of Building
  - b) Plinth Area
  - c) FAR
  - d) Effect of Sun in orientation of Building

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