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Roll No

CE/FT - 305

B.E. III Semester

Examination, December 2012

Building Design And Drawing

Time : Three Hours

Maximum Marks : 70/100

Note : Attempt all the four questions. Please supply drawing sheet and Graph sheet of 60cm x 35cm along with answer book.

1. a) Draw the sectional elevation and plan of lintel with chajja projection.
- b) Calculate and draw a dog legged stair to rise 3.25m height.

OR

- a) Explain in brief different type of foundations adopted in residential building. **www.rgpvonline.com**
- b) What is the general size of kitchen to be planned for a middle class family. List the various amenities to be provided in this.

2. a) Write various provisions related to residential buildings in national building code.
- b) Write short notes on:
 - i) Elegance
 - ii) Privacy
 - iii) Roominess

OR

- a) Show by drawing sketch how the positioning of door and window affect the internal privacy.
- b) Discuss the concept of grouping with special reference to hospital planning.

3. a) Draw a typical house drainage plan of a residential building.
- b) Adoption of civil engineering planning principles in a building, make the building energy efficient - discuss it.

OR

- a) What are the various fire safety measures which should be incorporated during planning of building?
- b) Define in short: scale, composition and contrast. Write by what way these effect the architectural planning of a building.

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4. Plan a residential building on a plot size 12.25m x 18.25m, with minimum two bed room, drawing, dining, kitchen and other amenities on the ground floor. Percentage built up area allowed is 50% and maximum permissible FAR is 1.2. Draw plan and sectional elevation showing the details of stair case.

OR

Plan a primary school building in rural background for class 1st to 5th standard to accommodate 400 students. Draw the line plan on graph sheet. Write your comment for deciding the dimensions of each unit.
