

Seat No.	
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**S.E. (Civil) (Part - II) (Revised) (Semester - IV) Examination,
December - 2015**

BUILDING DESIGN AND DRAWING

Sub. Code : 63348

Day and Date : Thursday, 03 - 12 - 2015

Total Marks : 100

Time : 09.00 a.m. to 01.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Assume your own data wherever necessary and mention it.

SECTION - I

- Q1) a)** List out the factors to be considered in selecting good site for residential buildings. [5]
- b)** Explain the significance of sun diagram. [5]

OR

- b)** State the factors affecting Floor Space Index.

Q2) A residential building (G + 1) is proposed to be constructed for a practicing advocate with the following requirements :

- Office with separate entrance
- A living hall
- Master bed - 1 No
- Children Bed - 1 No
- Kitchen with dining
- Store

- Additional bath and WC
- Staircase and portico

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The size of the plot is 18 m × 24 m and the road is on western side, parallel to 18 m side. Design the building and draw to a suitable scale following :

- Floor plans [20]
- Furniture layout of office. [5]

- Q3) a) Differentiate between the terms repair and rehabilitation giving examples. [6]
- b) Explain how you would rectify leakage at roof parapet junction in a flat roofed building. [9]

OR

- b) List the common items of repair in annual maintenance of a building. Explain any one in detail.

SECTION - II

- Q4) a) State the advantages of thermal insulation. [6]
- b) Explain the methods of cement plastering. [10]

- Q5) a) Explain 'Intercepting Trap' with a sketch. [6]
- b) What is 'Ventilation'? Why it is necessary? Explain the systems of ventilation. [10]

- Q6) Write notes on any three : [18]

- a) Septic Tank.
- b) Types of Wiring.
- c) Types of Traps according to shape.
- d) Characteristics of good plaster.
- e) Stack effect and wind effect.

