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Seat No.	
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[5057]-207

S.E. (Civil) (Second Semester) EXAMINATION, 2016
ARCHITECTURAL PLANNING AND DESIGN OF BUILDINGS
(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

- N.B. :-** (i) Assume suitable data, if required.
(ii) Figures to the right indicate full marks.
(iii) Solve Q. Nos. **1 or 2**, Q. Nos. **3 or 4** in Answer-book.
(iv) Solve Q. Nos. **5 or 6**, Q. Nos. **7 or 8** on drawing sheet only.

- 1.** (a) What is development plan ? State its importance. [7]
(b) Explain the following principles of architectural planning with suitable sketches : [6]
(i) Prospect
(ii) Roominess.

Or

- 2.** (a) Enlist documents to be submitted for seeking commencement Certificate and Occupancy Certificate. [6]
(b) State the importance of Rain Water Harvesting and explain the methods. [7]

P.T.O.

3. (a) What are Acoustic Defects ? Explain any *two* in detail. [7]
(b) Explain the following : [6]
(i) TDR
(ii) FSi.

Or

4. (a) The internal dimensions of a factory building are $30 \times 20 \times 10$ m. The number of air changes required are three. The difference between indoor and outdoor temperature is 6°C . Find the area of openings required, if the vertical distance between inlet and outlet openings is 6 m. [7]
(b) Define the following terms : [6]
(i) Picture plane
(ii) Vanishing point
(iii) Building line.

5. Draw a detailed floor plan to a scale of 1 : 50 of a residential building for the given line plan below. Use the following data : RCC framed structure, Wall thk 230 mm, Single storey building, Plinth height 500 mm, All dimensions are in mm. Assume suitable locations and sizes of doors, windows. Refer the figure. [13]

Or

6. Design a single storey residential building (Framed structure) and draw a detailed Floor Plan to a scale of 1 : 50 with the following data : [13]
(i) Living room 1 no. approx. area 15 m^2

- (iv) Gymnasium approx. area 15 m²
- (v) Office space approx. area 12 m²
- (vi) Store room approx. area 10 m²
- (vii) Varandah, Passage, Staircase, W.C. and bath etc. of suitable size should be provided.

Show north direction and mention scale.