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Total No of Questions: [8]

SEAT NO. :

[Total No. of Pages : 3]

S.E. Civil (2012)-201005
Architectural Planning & Design of Buildings
(Semester -II)

Time: 2 Hours

Max. Marks : 50

Instructions to the candidates:

- 1) Answers to the Questions 1 or 2 and 3 or 4 should be written in answer book.
- 2) Use Drawing Sheet for Q 5 or 6 and Q 7 or 8.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right side indicate full marks.
- 5) Use of Calculator is allowed.
- 6) Assume Suitable data if necessary

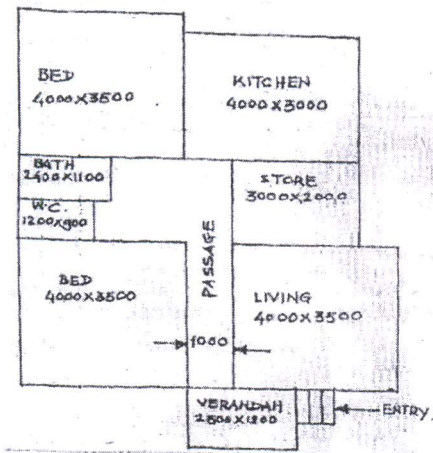
- Q1) a) What is Development Plan? State its importance and enlist various Land-uses [7]
b) Explain the following principles of architectural planning with suitable sketches. [6]
i) Privacy, ii) Roominess

OR

- Q2) a) Enlist documents to be submitted for seeking Commencement Certificate and [6]
Occupancy Certificate
b) Write a short note on Green Building. Enlist various rating systems. [7]
- Q3) a) What are Acoustic Defects? Explain any two in detail. [6]
b) Explain the following: [6]
i) Built-up Area, ii) Carpet Area, iii) FSI

OR

- Q4) a) Internal dimensions of a factory building are 40 x 20 x 10 m. The number of air [6]
changes required are three. The difference between indoor and outdoor
temperature is 7° C. Find the area of openings required, if the vertical distance
between inlet and outlet openings is 7 m.
b) Define following : i) Picture Plane, ii) Vanishing Point, iii) Building Line [6]
- Q5) a) Draw a detailed Floor Plan to a scale of 1:50 of a residential building for the [13]
given line plan below. Use following data: RCC framed structure, Wall thk. 230
mm, Single storey building, Plinth height 500 mm, All dimensions are in mm,
Assume suitable locations & sizes of doors, windows.



OR

Q6) Design a single storey residential building and Draw a detailed Floor Plan to a scale of 1:50 with following data: [13]

- i) Living room 1 no. approx. area 15 m^2
- ii) Kitchen cum Dining 1 no. approx. area 15 m^2
- iii) Bed rooms 2 no. approx. area 12 m^2 each
- iv) Floor to floor height 3.2 m
- v) Load bearing structure
- vi) Foundation & Plinth in UCR masonry
- vii) Varandah, Passage, Staircase, W.C. and Bath etc. of suitable size should be provided. Show north direction.

Q7) a) It is proposed to construct a marble-mosaic tile Factory. Design the building and draw only Line Plan considering all necessary units. The factory must consist of the following units: [12]

- iv) Administration and engineering staff unit
- ii) Storage space for raw materials
- iii) Production unit
- iv) Storage space for finished products

Show north direction and mention scale.

OR

Q8)

Design a single storey hostel building and Draw only Line Plan with following data:

[12]

- i) Number of students 30
- ii) All rooms are two bedded assume suitable size
- iii) Recreation room approx. area 35 m^2
- iv) Gymnasium approx. area 15 m^2
- v) Office space approx. area 12 m^2
- vi) Store room approx. area 10 m^2
- vii) Varandah, Passage, Staircase, W.C. and Bath etc. of suitable size should be provided.

Show north direction and mention scale.