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Code No: R1622011



SET - 1

II B. Tech II Semester Regular Examinations, April - 2018 **BUILDING PLANNING AND DRAWING**

Time: 3 hours

(Civil Engineering)

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer any THREE Questions from PART-A 3. Answer any ONE Question from PART-B

 $(14 \times 3 = 42M)$

PART -A

- 1. a) What are building bye laws? Explain them briefly.
 - Write short notes on Floor Area Ratio (FAR), how it is related to height b) of the building. Explain.
- 2. a) Explain in detail the factors to be considered for selection of a site for a residential building
 - b) On what considerations, the grouping of various units in residential buildings is made?
- 3. a) What are the minimum standards of various parts of Hospital and Dispensaries?
 - b) Discuss the principles of planning of school building.

Explain about the Recreation buildings. 4.

- 5. a) Write the limitations of Built up area
 - b) What are the lightening and ventilation requirements in an auditorium

PART-B

 $(1 \times 28 = 28M)$

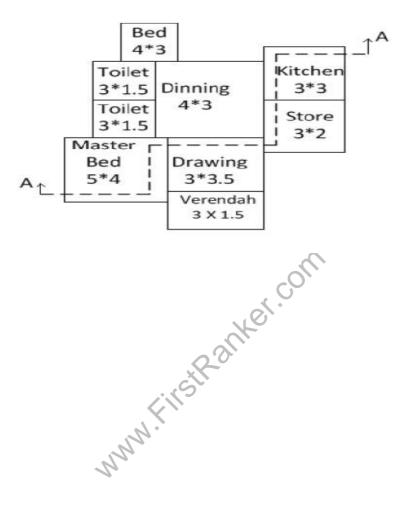
- Draw a neat sketch of an odd and even course of English Bond for a one and half 6. a) brick wall.
 - b) Draw three different types of commonly used doors and identifying different components in doors



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The line diagram for a plan of a residential building is provided below:
 Draw a neat diagram of the plan and section AA of the same
 Assume all data required as per the standard dimensions





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SET - 2

II B. Tech II Semester Regular Examinations, April - 2018 BUILDING PLANNING AND DRAWING

Time: 3 hours

(Civil Engineering)

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer any THREE Questions from PART-A 3. Answer any ONE Question from PART-B

 $(14 \times 3 = 42M)$

PART -A

- 1. Explain different factors that affect the site selection for a residential building.
- 2. What do you mean by Byelaws? Explain them in detail along with their objectives and underlying principles.
- 3. What do you mean by grouping? Explain its significance in the planning of residential buildings along with neat sketches.
- 4. How the planning of a public building does differs from planning of a residential building? Explain the key factors to be considered in the design of an educational institution.

PART-B

5. What are the Land scaping requirements? Explain briefly.

 $(1 \times 28 = 28M)$

Draw conventional signs for the following materials: 6. a) (i) Brick.

(ii) Concrete.

(iii) Wood.

(iv) Stone.

(v) Earth.

b) Draw to a suitable scale the front elevation of a King post truss indicating all details for a clear opening of 8000 mm.

2



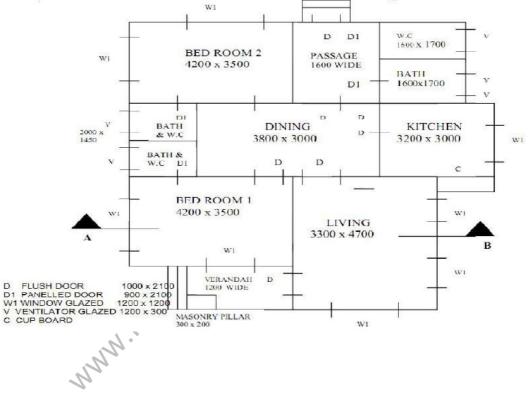
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R16

$$\left(\text{ SET - 2} \right)$$

a) The line sketch of the plan of a residential building is shown in figure below. Draw:
a) A neat dimensioned plan.
b) Sectional elevation along AB, to a suitable scale, using the following specification. Specifications: Foundations: C.C 1:4:8 800 mm wide and 300 mm thick. Footings: Rubble stone masonry: 600 mm x 500 mm.
Basement: Coursed rubble masonry: 400 mm wide and 700 mm high. Superstructure: Brickwork in C.M 1.5:300 mm wide and 300 mm high.
R.O.C roofing: 100mm thick







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SET - 3

II B. Tech II Semester Regular Examinations, April - 2018 BUILDING PLANNING AND DRAWING (Civil Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**) 2. Answer any **THREE** Questions from **PART-A** 3. Answer any **ONE** Question from **PART-B**

 $(14 \times 3 = 42M)$

PART -A

- 1. Classify the buildings based on occupancy and type of construction.
- 2. a) Describe the objectives of Building bye-laws.
 - b) On what considerations, the grouping of various units in residential buildings is made?
- 3. Describe the important departments and facilities to be provided in the layout of a general hospital.
- 4. What are the requirements to be considered in planning of Industrial building

5. Explain the facilities to be provided for hotels and motels

 $(1 \times 28 = 28M)$

- 6. a) Draw the neat dimensioned sketch of a King Post Truss
 - b) Draw plans of Flemish bond with all the details.
- 7. A house of plinth area about 35 Sqm is to be located in a plot of 10 m x 12 m. The shorter side is parallel to road running in East-West direction, with plot on Southern side of the road. The following rooms are required: One bed room, Drawing room, Kitchen, Bath and WC. Draw line plane and plan of building



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(SET - 4)

II B. Tech II Semester Regular Examinations, April - 2018 BUILDING PLANNING AND DRAWING

(Civil Engineering) Time: 3 hours Max. Marks: 70 Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**) 2. Answer any **THREE** Questions from **PART-A** 3. Answer any **ONE** Question from **PART-B** (14 × 3 = 42M) <u>PART -A</u>

- 1. Explain the building byelaws with reference to open space requirements and plinth area requirements.
- 2. On what considerations, the grouping of various units in residential buildings is made? Write short notes on Floor Area Ratio (FAR). Explain how it is related to height of the building.
- 3. Discuss about the usual requirements of a residential building.
- 4. a) Write short notes on grouping of buildings.
 - b) What are the factors to be considered in the design of a bank building?
- 5. a) Classify doors. Explain about any four type of doors
 - b) Clearly differentiate between King post and Queen post truss? Explain different features

<u>PART –B</u>

 $(1 \times 28 = 28M)$

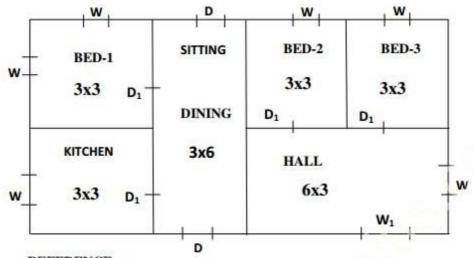
- 6. a) Draw the plans of Flemish bond odd and even courses of one and half brick walls in thickness at the junction of a corner
 - b) Draw the elevation of a glazed window of size 1000 mm x 1450 mm



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7. Draw Plan and Sectional elevation for the LINE diagram given below (Fig). Assume suitable Foundation details.



REFERENCE:-

