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Code No: R1622011 **R16** SET - 1

II B. Tech II Semester Supplementary Examinations, November - 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**

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(14 × 3 = 42M)

PART –A

1. Write short note on the following: Building line, Control line, Floor area ratio, Floor space index (14M)

2. What is the importance of lighting and ventilation in bye-buildings and also in general constructions? Explain? (14M)

3. Design/Plan a college Canteen building for the following requirements. Draw a line Diagram. a) Entrance with foyer with cashier's desk-15 Sq.m. b) Dining Hall of-120 Sq.m c) Kitchen and Pantry -60 Sq.m d) Store-20 Sq.m
e) Provision for Xerox Machine -10 Sq.m f) Open space for dining and washing etc. (14M)

4. a) Write the importance and necessity in planning of banks. (7M)
   b) Write the importance and necessity in planning of School buildings (7M)

5. Draw neat conventional symbols for the following. (14M)
   (i) English bond (ii) Concrete (iii) Queen closer (iv) King closer

PART –B

(1 × 28 = 28M)

6. Draw the King Post Truss of 6.00 m clear span with all required elements like purlins, rafters and battens. The cross sectional details are as follows. (28M)
King post: 10cm × 10cm -1.8 m Height
Principal Rafter: l2cm ×l0cm -3.5m long
Common Rafter: 10cm ×6cm - 80cm spacing
Eave Board: 10cm × 8cm
Cleats: 8cm × 8cm - 15cm long
Purlins: 12cm × 8cm
Battens: 4cm ×4cm

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

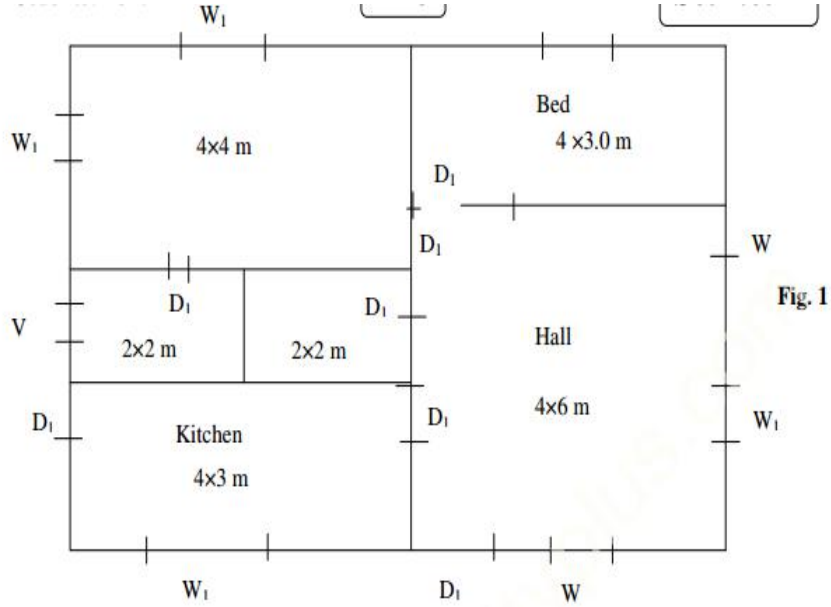

Fig. 1

D - 1000 X 2000 mm; D1 – 900 X 2000 mm; W – 900 X 1200 mm; W1 - 2000 X 1000 mm; V – 800 X 300 mm

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