

Code No: R1622011

R16**SET - 1**

II B. Tech II Semester Regular/Supplementary Examinations, April/May- 2019
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)**PART -A**

1. What are building Bye-laws and explain briefly the objectives and principles underlying building Bye-laws.
2. Discuss in detail the classification of buildings as per National building code.
3. Explain briefly the requirements of different rooms and their grouping in a residential building.
4. Discuss about the Principles of planning for a public buildings.
5. Design a School building for strength of 1500 students and draw the plan of the designed building.

PART -B**(1 × 28 = 28M)**

6. Draw two consecutive courses joints of the following walls in English bond:
 - i. One brick thick wall
 - ii. One and half brick thick wall
 - iii. Two brick thick wall
 - iv. Two and half brick thick wall
7. Draw plan and elevation (along the section) of the building shown in figure-1 with the following specifications (assume appropriate dimensions if not mentioned in the single line drawing)
 - a. Exterior walls are 9" thick and partitions walls are 4 ½ " thick
 - b. Doors : D1 - 4' width, D2 - 3 ½' width , D3 - 3 ' width
 - c. Windows: W1-4' x 3', W2-3' x 3', W3-2' x 2'
 - d. Take lintel level as 7' and total height of building as 11' with 5 " thick RCC slab



Code No: R1622011

R16

SET - 1

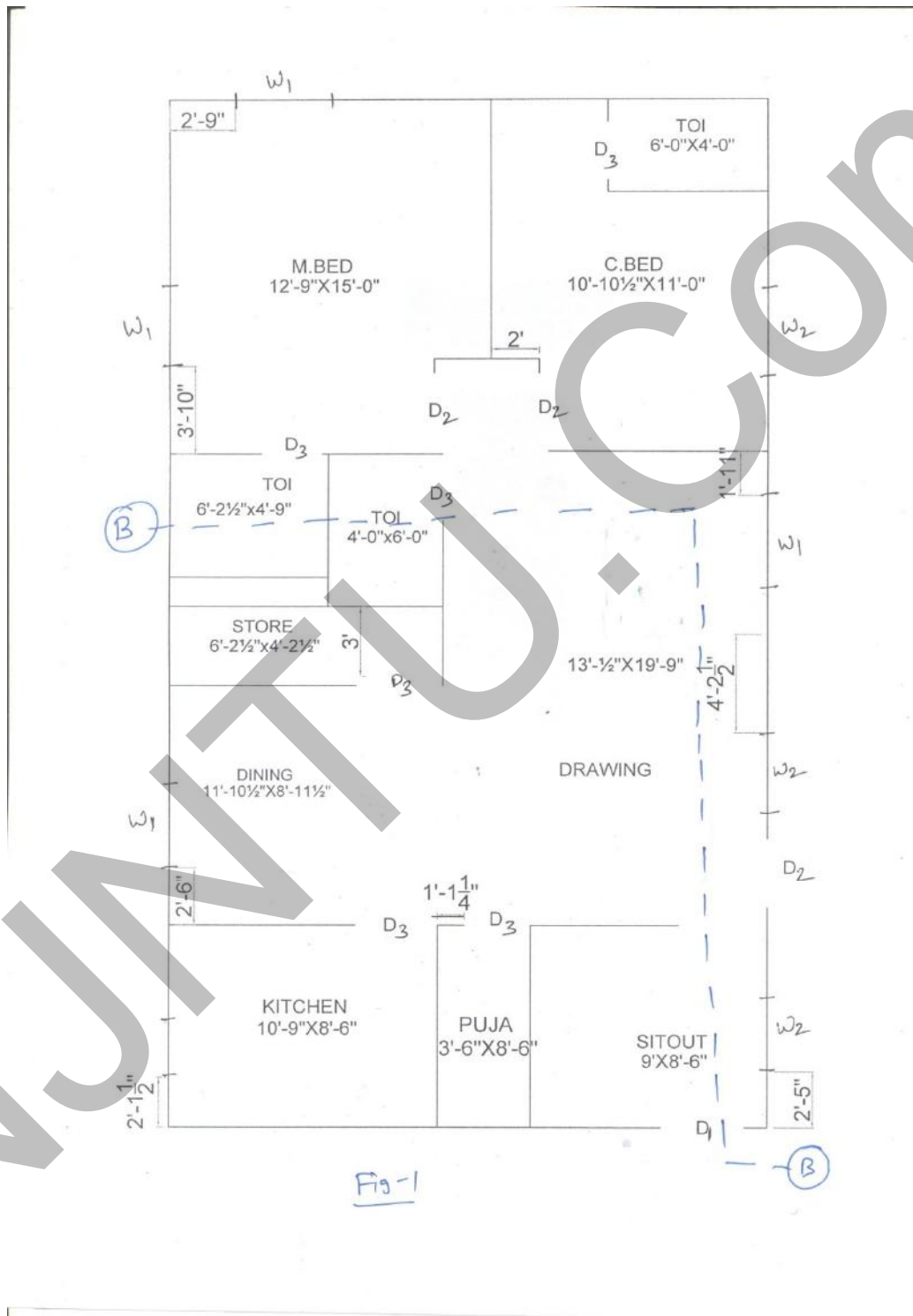


Fig-1



Code No: R1622011

R16**SET - 2**

II B. Tech II Semester Regular/Supplementary Examinations, April/May- 2019
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)**PART -A**

1. List out Principles of planning for a building and discuss any four in detail.
2. Explain briefly the characteristics of various types of residential buildings.
3. Design a School building for strength of 1200 students and draw the plan of the designed building.
4. Discuss the salient features of the functional design of the following:
 i) Office buildings ii) Bank buildings
5. Explain Briefly about
 i) Floor area ratio (FAR)
 ii) Floor space index (FSI)
 iii) Open spaces and Setbacks

PART -B**(1 × 28 = 28M)**

6. a) With suitable scale draw the following symbols
 i. Brick work ii. Concrete iii. Sand filling iv. Steel
- b) Draw front elevation, vertical section of a double leafed paneled door.
7. Draw plan and elevations (along the sections shown) of the building shown in figure-1. with the following specifications (assume appropriate dimensions if not mentioned in the drawing)
 A. Take lintel level as 7' and total height of building as 11' with 5 " thick RCC slab.



Code No: R1622011

R16**SET - 3**

II B. Tech II Semester Regular/Supplementary Examinations, April/May- 2019
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)**PART -A**

1. a) Explain briefly about Floor area ratio (FAR) and Floor space index(FSI)
 b) Discuss Why open spaces and setbacks are essential for any building.
2. Discuss in detail the classification of buildings as per National building code.
3. Design a 100 bedded Hospital building and draw the plan of the designed building.
4. Discuss about lighting and ventilation requirement in public buildings.
5. Discuss the salient features of the functional design of the following:
 i) School buildings ii) Hotel buildings

PART -B**(1 × 28 = 28M)**

6. a) Draw two consecutive courses joints of a one brick thick wall in English bond.
 b) With suitable scale draw the details of a Queen post truss.
7. Draw plan and elevations (along the sections shown) of the building shown in figure-1. With the following specifications (assume appropriate dimensions if not mentioned in the drawing)
 A. Take lintel level as 7' and total height of building as 11' with 5 " thick RCC slab.



Code No: R1622011

R16

SET - 3

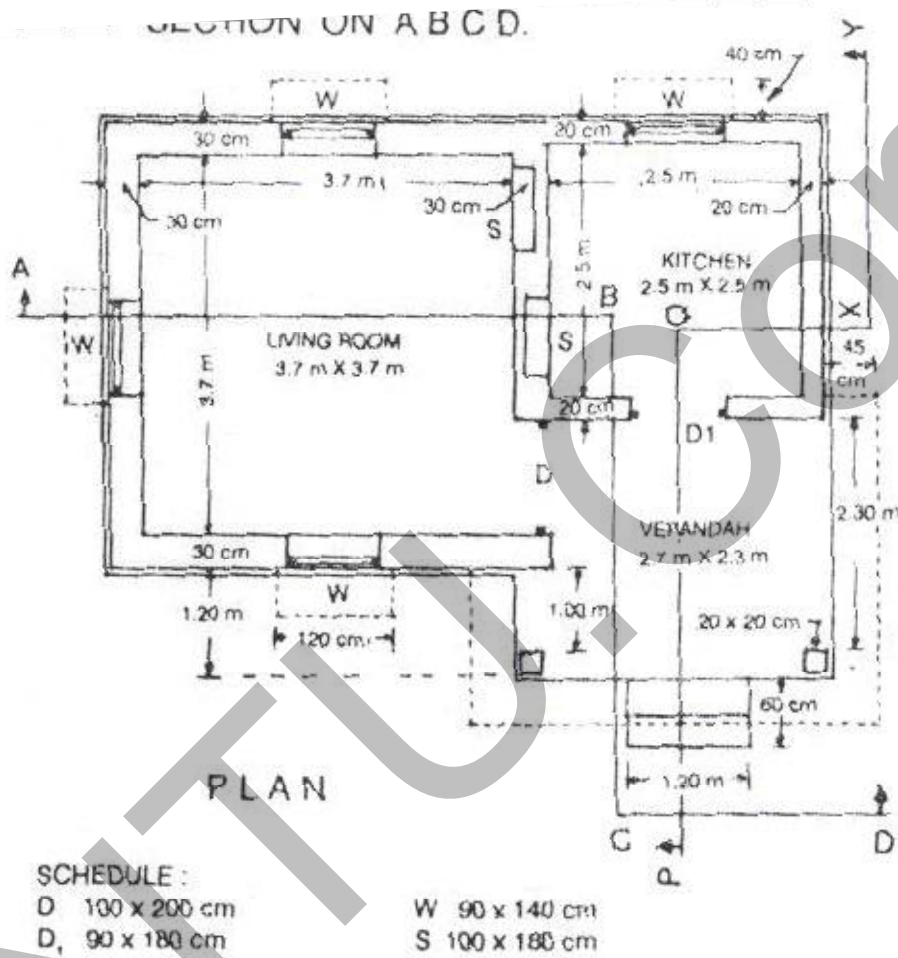


Fig. 1



Code No: R1622011

R16**SET - 4**

II B. Tech II Semester Regular/Supplementary Examinations, April/May- 2019
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)**PART -A**

1. List out Principles of planning for a building and discuss any four in detail.
2. Discuss about lighting and ventilation requirement for different rooms in a residential building.
3. Explain about the reasons for minimum area requirement for different rooms in a residential building.
4. Explain briefly the requirements of different rooms and their grouping in a residential building.
5. Discuss the salient features of the functional design of the following:
 i) Office buildings ii) Bank buildings

PART -B**(1 × 28 = 28M)**

6. a) with suitable scale draw the following symbols
 i. Brick work ii. Concrete iii. Timber iv. Glass
 b) Draw two consecutive courses joints of the following walls in English bond
 i. one brick thick wall ii. One and half brick thick wall iii. Two brick thick wall
7. Draw plan and elevation (along the section) of the building shown in figure-1 with the following specifications (assume appropriate dimensions if not mentioned in the single line drawing)
 - a. Exterior walls are 9" thick and partitions walls are 4 ½ " thick
 - b. Doors : D1 - 4' width, D2 - 3 ½' width , D3 - 3 ' width
 - c. Windows: W1-4' x 3', W2-3' x 3', W3-2' x 2'
 - d. Take lintel level as 7' and total height of building as 11' with 5 " thick RCC slab



Code No: R1622011

R16

SET - 4

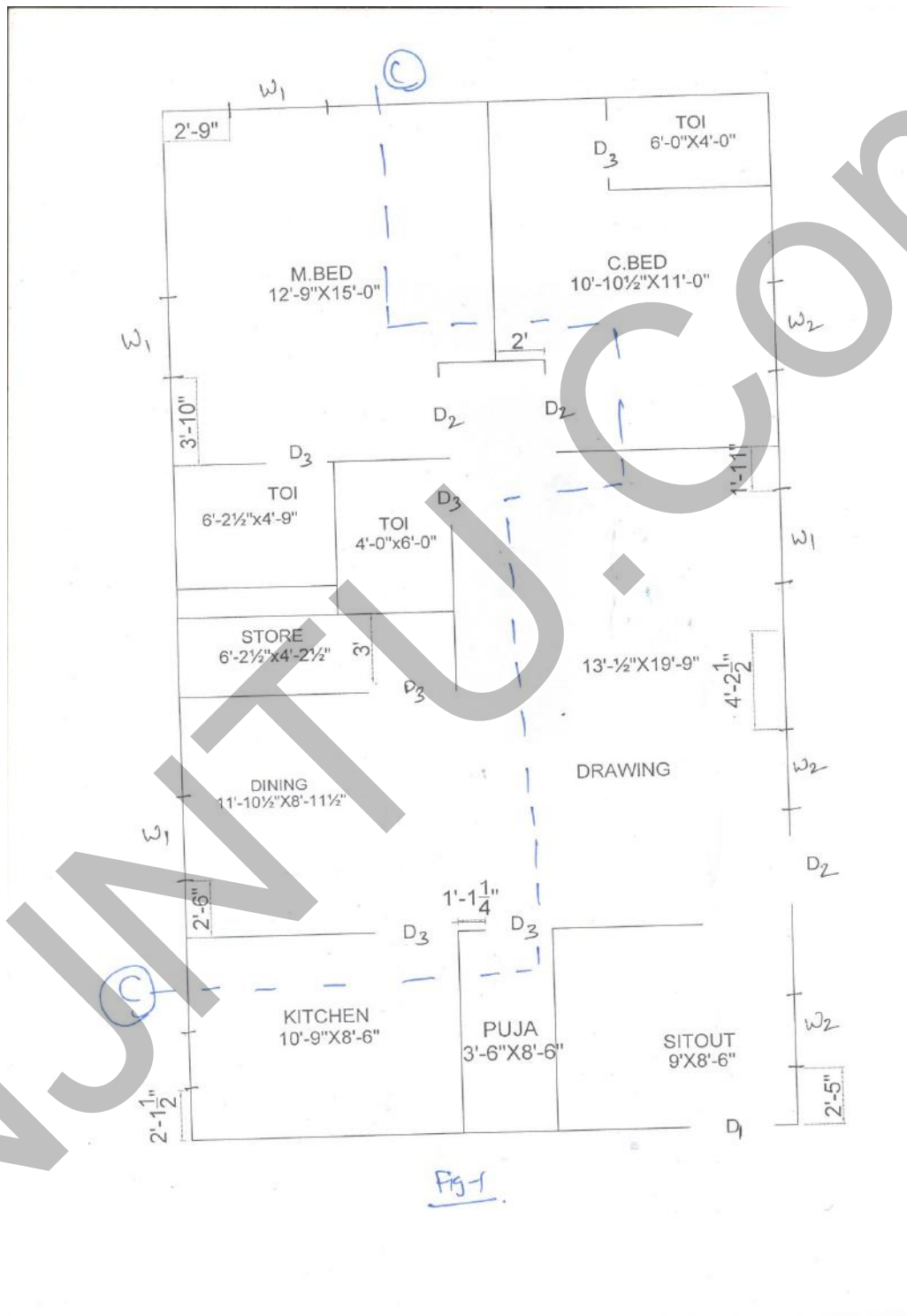


Fig-1

