proposed

1020

Code : 15CE22D

Register Number | | | | | | | | | | |

II Semester Diploma Examination, Oct./Nov.-2019

ENGINEERING DRAWING - II

Time : 4 Hours] **[Max. Marks : 100**

Note : Answer any **two** full questions from Part – **A**, Answer any **three** full questions from Part – **B**, Part – **C** is **compulsory**.

PART – A

(Any Two)

1. Draw the three principal views of the component as shown in the Fig – 1. **10**

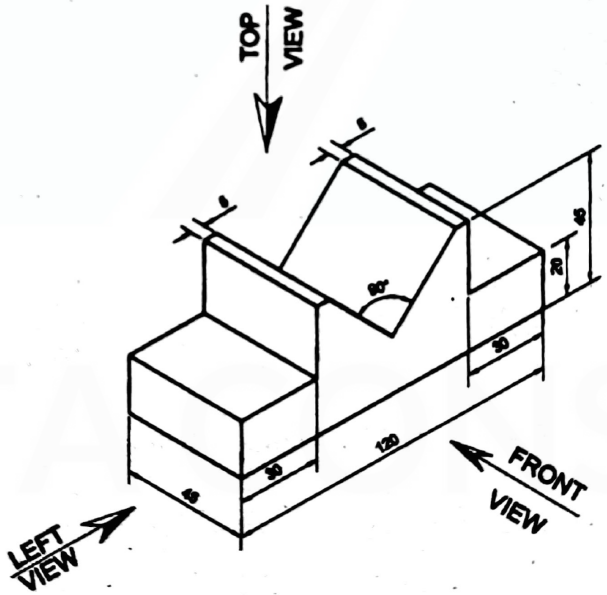


Fig – 1

All dimensions in mm

[Turn over

2. Draw the three principal views of the component as shown in the Fig – 2. 10

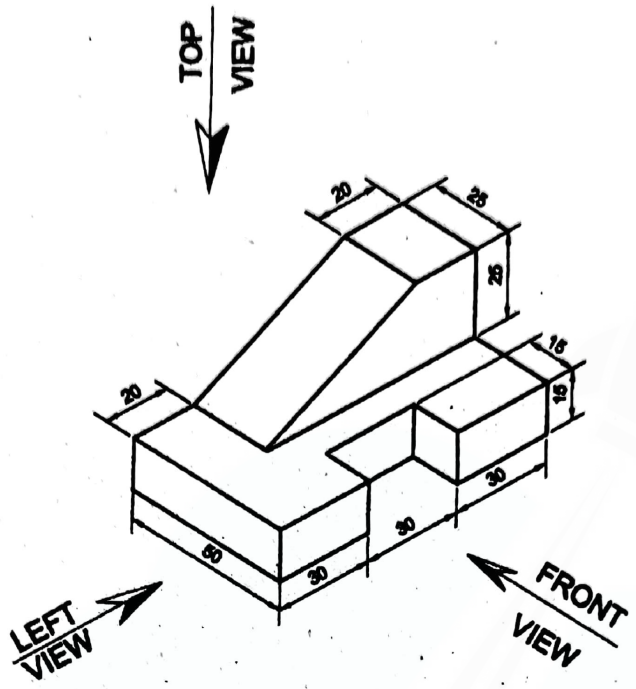


Fig – 2
All dimensions in mm

3. Show the details in sectional view of a wall from foundation to the parapet level including door section with chejja by the following details : 10
Adopt scale 1 : 50
   (a) Foundation : 1200 mm wide & 1100 mm deep with concrete bed 1 : 4 : 8, 200 mm thick & two courses of size stone masonry in C.M. 1 : 6 450 mm depth of each course and 750 mm and 600 mm widths.
   (b) Basement : Size stone masonry in C.M. 1 : 6, 450 mm wide 450 mm depth which includes 100 mm thick plinth concrete.
   (c) Wall : Burnt Brick masonry wall in C.M. 1 : 6 of 300 mm thick, ceiling height 3.0 m.
   (d) Roof slab : R.C.C. roof slab in CC 1 : 2 : 4, 150 mm thick
   (e) Size of door : 1 : 2 m × 2.1 m
   (f) Provide suitable parapet wall, flouring w.p.c. lintel & chejja.

PART - B
(Any Three)

4. Draw the projection of a triangular prism of base side 30 mm and axis length 60 mm resting on a corner such that the two base edges passing through it make equal inclination with H.P. and its base inclined at 60° to HP and the axis appears to be inclined at 30° to V.P. in the top view. 15

A Hexagonal pyramid of 25 mm side of base and height 55 mm rests with one of its triangular faces on HP and the axis appears to be inclined at 30° to VP in the top view. Draw its top and front views. **15**

6. Draw the Isometric view of the following objects whose orthographic views are given in Fig. – 3. **15**

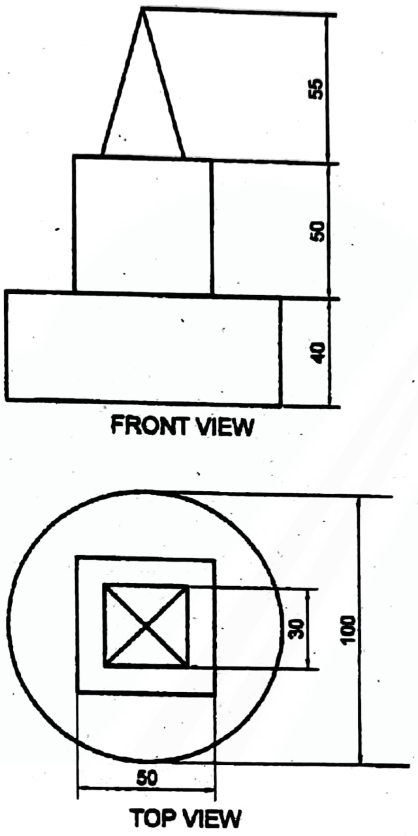


Fig – 3

All dimensions in mm

7. Three cubes of sides 60 mm, 40 mm and 20 mm are placed centrally one above the other. Draw the isometric projections of the combination. **15**

8. Draw the perspective view of a square prism of 30 mm side of base and height 40 mm rests with its base on ground, such that one of the rectangular face is inclined at 30° to PP. The nearest vertical edge touches the picture plane. The station point is 45 mm infront of the PP, 65 mm above ground and lies opposite to the nearest vertical edge that touches the picture plane. **15**

PART - C

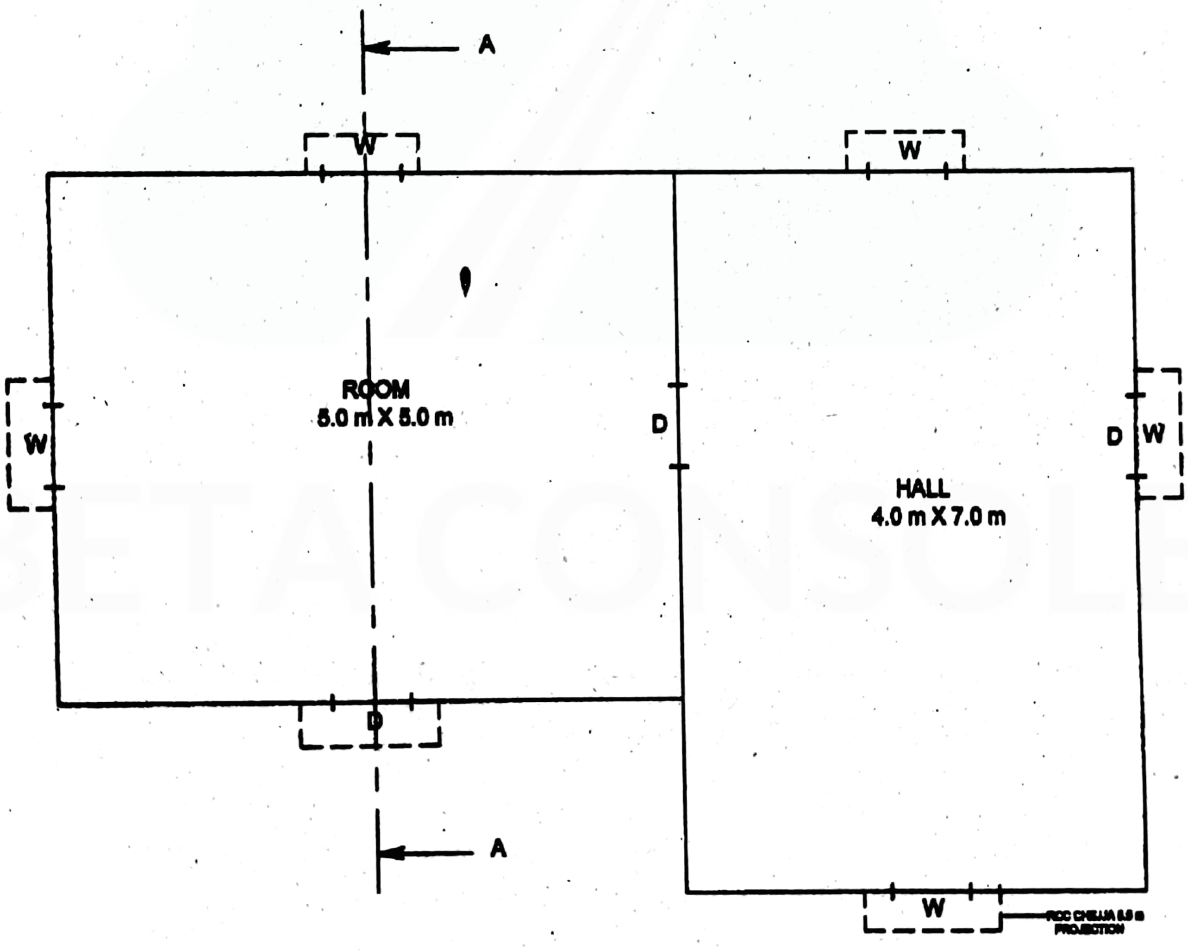
(Compulsory)

9. The line diagram of a double room building is shown in Fig. – 4. The details and specifications are as follows : 35

(a) Level of plinth above ground : 0.45 m
(b) Height of ceiling from the floor : 3.2 m
(c) Burnt brick masonry wall, thickness of wall : 0.3 m
(d) Doors : 1.0 m × 2.1 m
(e) Windows : 1.2 m × 1.2 m
(f) R.C.C. Roof : 0.12 m thick
(g) Parapet wall of burnt brick masonry : 0.6 m height & 0.2 m thick
(h) Provide suitable foundation of size stone masonry.
(i) Assume any other details required suitably.

Draw to a scale of 1 : 50.

(i) Plane of the Building
(ii) Front Elevation of the Building
(iii) Section along AA.



LINE DIAGRAM

Fig. – 4