

**1267****Code : 15ME01D**Register  
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**I Semester Diploma Examination, Nov./Dec. 2017****ENGINEERING DRAWING****Time : 3 Hours ]****[ Max. Marks : 100**

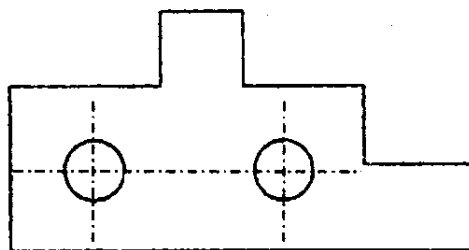
- Note :**
- (i) Part – A is compulsory.
  - (ii) Answer any **two** full questions each from Parts – B, C & D.
  - (iii) All dimensions are in mm.

**PART – A**

1. Draw the top and front views of a rectangular pyramid of sides of base 20 mm and height 35 mm when it lies with one of its triangular faces containing the longer edge of the base on HP. 10

**PART – B**

2. (a) List the standard sizes of drawings sheets recommended by BIS, showing its designation and trimmed size in mm. 5
- (b) Illustrate with applications, continuous thick line and chain thin line. 5
- (c) Draw a sketch, showing the “Elements of Dimensioning”. 5
3. Copy the sketch shown in Fig. 1 to 1 : 1 scale and dimension it adopting aligned system with progressive dimensioning method. 15

**Fig. 1**

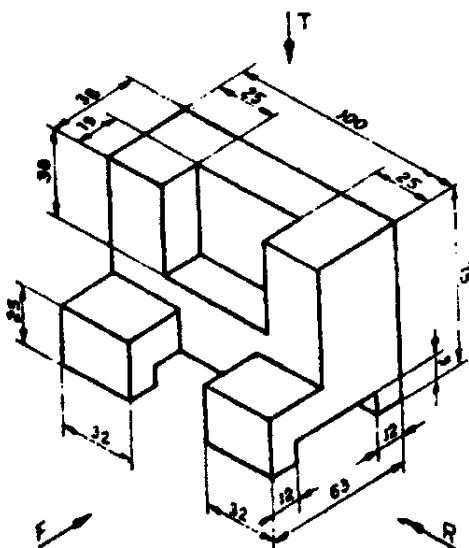
4. Draw the three principal views of a point “P” lying 40 mm behind VP, 60 mm below HP and 30 mm behind the right profile plane. 15

**PART - C**

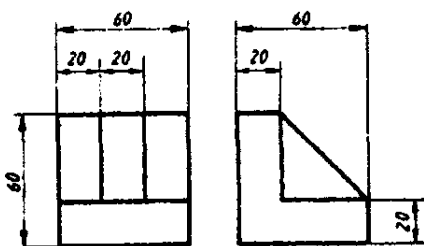
5. A line 80 mm long is inclined at  $45^\circ$  to VP and parallel to HP. The end nearer to VP is 30 mm in front of VP, 60 mm above HP and 100 mm in front of right PP. Draw its projections. **15**
6. A regular pentagonal lamina of 30 mm side rests on HP with its plane vertical and inclined at  $45^\circ$  to VP. Draw its top and front views, when one of its sides is perpendicular to HP. **15**
7. A hexagonal prism base 20 mm side and axis 40 mm long is placed with one of its base edges on HP such that the axis is inclined at  $30^\circ$  to HP, Draw its projections. **15**

**PART - D**

8. Draw the orthographic views of an object shown in fig. 2. **15**

**Fig. 2**

9. Draw the isometric view of the object shown in fig. 3. **15**

**Fig. 3**

10. Draw the isometric view of the object shown in fig. 4.

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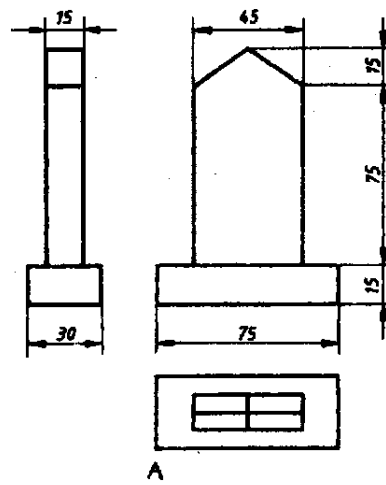


Fig. 4