



C16- COMMON -107

6005

BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—2022

FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 hours]

[Total Marks : 60

PART—A

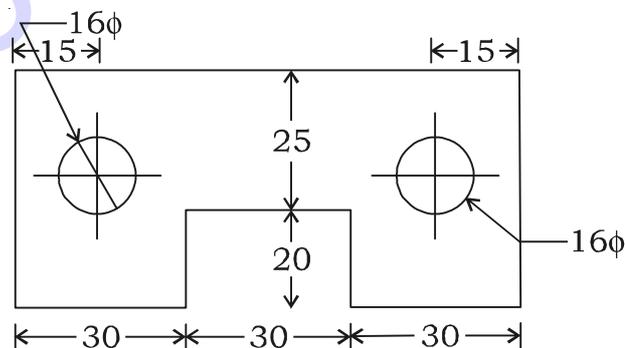
5×4=20

- Instructions :**
- (1) Answer **all** questions.
 - (2) Each question carries **five** marks.
 - (3) **All** dimensions are in mm.

1. Write the following in single stroke vertical letters of size 10 mm as prescribed in SP:46-1988.

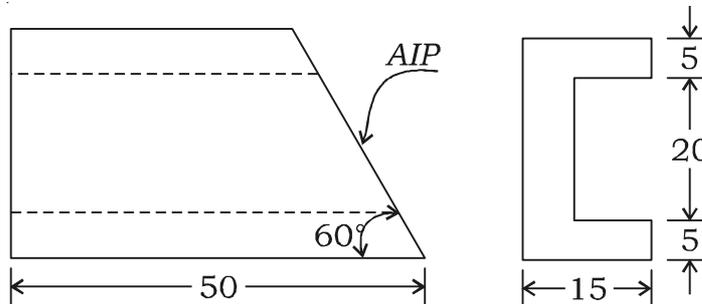
“SMALL THINGS MAKE PERFECTION”

2. Redraw the following figure to full scale by correcting the errors in dimensioning as per SP 46-1988.



3. Construct a pentagon of size 30 mm.

4. Draw the auxiliary view of inclined portion of the object shown in figure below.

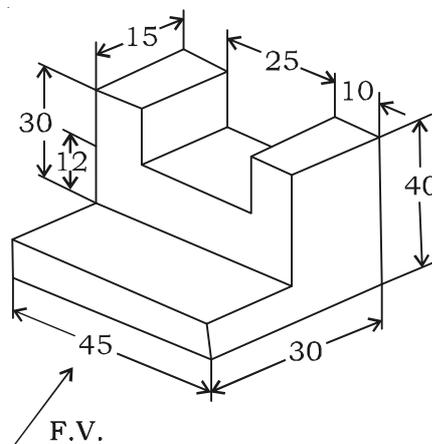


PART—B

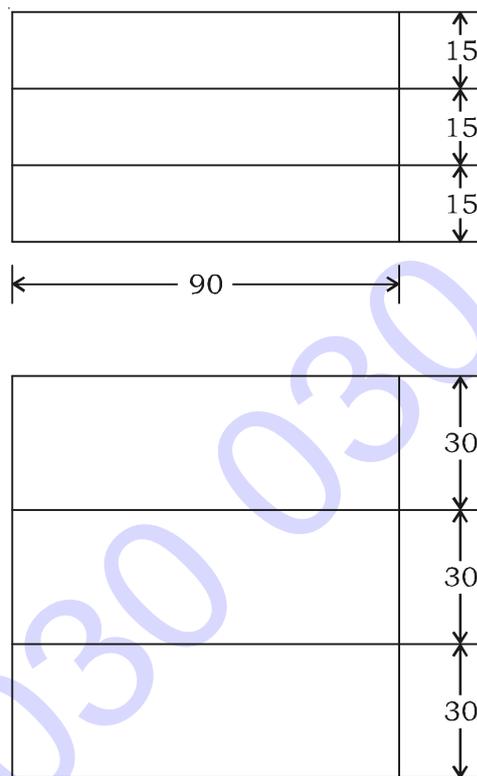
10×4=40

- Instructions :**
- (1) Answer *any four* questions.
 - (2) Each question carries **ten** marks.
 - (3) **All** dimensions are in mm.

5. A Circle of 50 mm diameter rolls along a line for one revolution clockwise. Draw the locus of a point on the circumference of circle, which is in contact with the line.
6. Draw the projection of a hexagonal pyramid of base side 40 mm and height 80 mm where the base is fully touching the VP so that two of its sides are making 30° to the HP.
7. Draw the front view, top view and right side view of the objection shown in figure below :



8. A square pyramid with base 50 mm side and one axis 80 mm long is resting on the ground with its axis vertical and sides of the base equally inclined to the vertical plane. It is cut by a section plane perpendicular to VP inclined at 45° HP and bisecting the axis. Draw its sectional top view and true shape of the section.
9. Draw the isometric view of the object whose orthographic views are given below :



10. Develop the lateral surface of a truncated cone of base diameter 60 mm and a vertical height of 80 mm. When it cut by a plane inclined at an angle of 45° to horizontal plane and passes through the mid-point of its axis in the elevation.
