

**INSTRUCTIONS :**

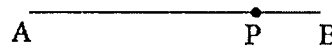
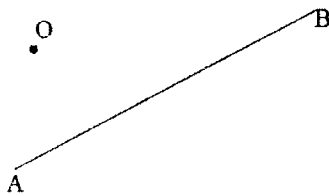
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. All questions are compulsory drawn by drafting instruments.

**Q-1 Attempt any 4**

**(20marks)**

a. Draft types of line of 150mm dimension.

- |                 |                   |
|-----------------|-------------------|
| i. Hidden Line  | iii. Section line |
| ii. Centre Line | iv. Break line    |
- b. Draw a line through a given point; parallel to a given straight line (as shown in figure.)

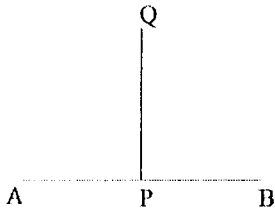


- b.
- c. Draw a perpendicular to a given line from a point within it.
- d. Draw trisect of a right angle.
- e. Divide a line segment into 7 equal parts.

**Q2 Each one carry equal marks (any 4)**

**(40marks)**

a. Construct an equilateral triangle of a given altitude. (AB= 60mm)

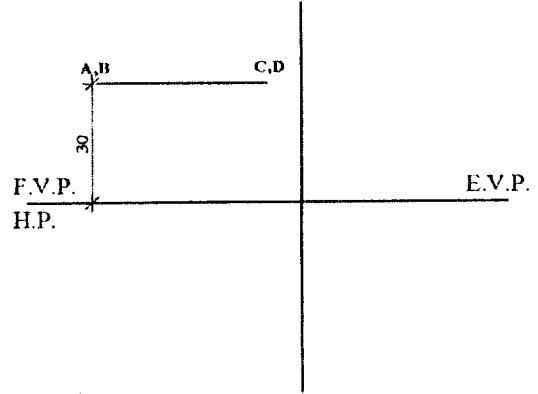
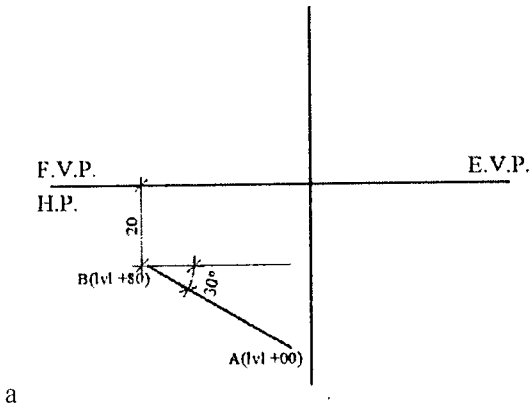


- b. Construct a surface development of a cube, length of a side is 60mm.
- c. Construct a surface development of hexagonal prism, whose side is 40mm, height 60mm.
- d. Construct a regular hexagon whose side is 60mm.
- e. Divide a circle into 12 equal parts whose diameter is 100mm.

(P.T.O.)

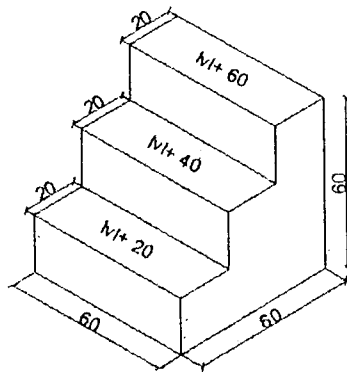
E 300-2

Q-3 Draw orthographic projection of figures given below:  
(20 marks)



Q4  
a) Draw orthographic projection

(10marks)



b) Draw orthographic projection

(10marks)

