# ICSE SEMESTER 2 EXAMINATION

# SPECIMEN QUESTION PAPER

# TECHNICAL DRAWING APPLICATIONS

*Maximum Marks: 50*

*Time allowed: One and a half hours*

*Answers to this Paper must be written on the paper provided separately.*

*You will not be allowed to write during the first 10 minutes.*

*This time is to be spent in reading the question paper.*

*The time given at the head of this Paper is the time allowed for writing the answers.*

*Attempt **any two** questions from **Section A** and **any two** questions from **Section B.***

*Answers to this paper must be drawn **neatly** on separate sheets of paper.*

*All questions must be answered in full scale.*

*All construction lines must be shown.*

*All dimensions are in millimeters unless specified otherwise.*

*The intended marks for questions or parts of questions are given in brackets [ ].*

## SECTION A

*(Attempt **any two** questions.)*

**Question 1**

**Figure 1** shows F.V. and T.V. of a right pentagonal pyramid whose axis is perpendicular to the vertical plane V.P. and parallel to the horizontal plane H.P. in **FIRST ANGLE METHOD** of projections. Draw the **Auxiliary F.V.** The auxiliary plane P-Q is shown in the figure. [10]

Given: Side of Base = 25mm

Length of Axis – 60mm

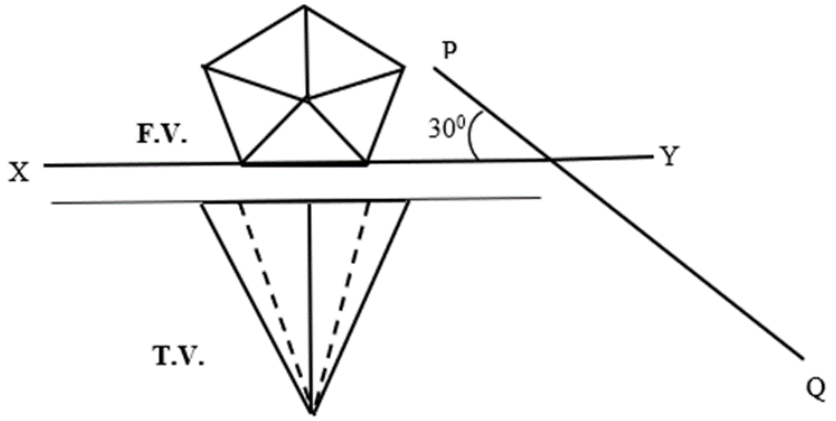


**FIGURE 1**

**Question 2**

Refer to **Figure 2** given below. It shows the Front View & Top View of an object in the **FIRST ANGLE METHOD** of projections. [10]

Draw the **OBLIQUE VIEW** if the receding axis is inclined at 45$^{o}$ to the horizontal.

**(DO NOT INSERT ANY DIMENSIONS)**

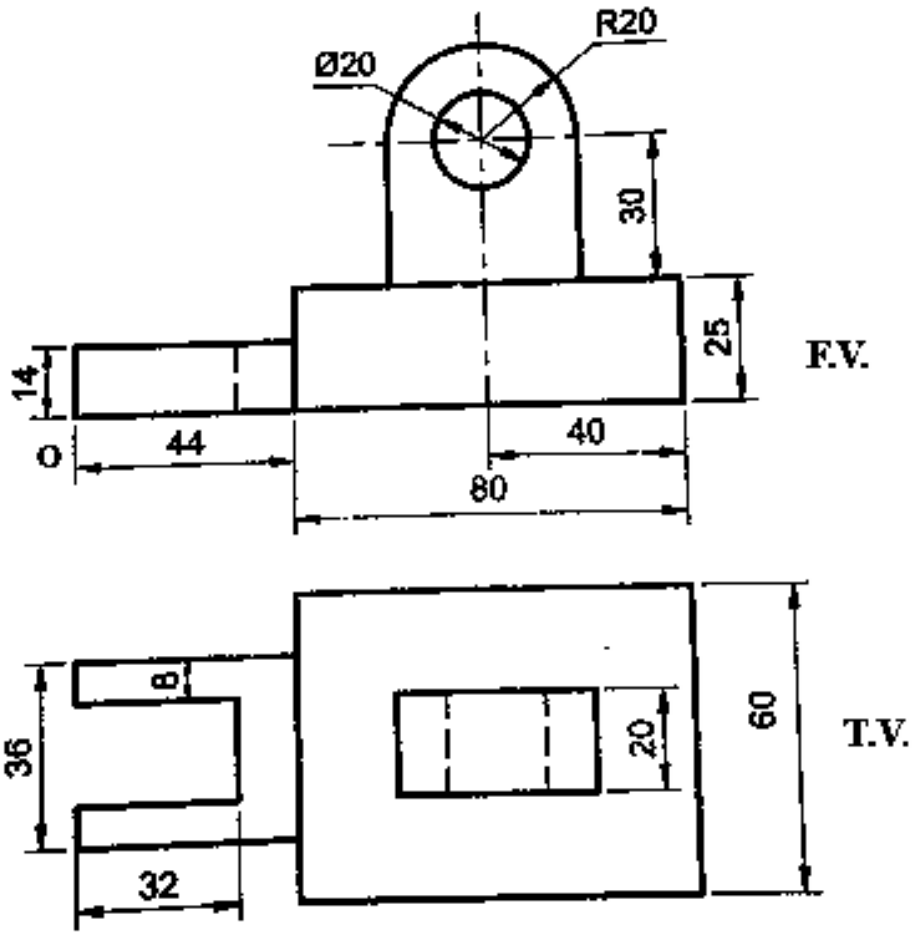


**FIGURE 2**

**Question 3.**

Draw F.V., T.V., R.H.S.V. and Lateral Development of a right circular cylinder, whose axis is perpendicular to the horizontal plane H.P. and parallel to the vertical plane V.P. [10]

Base Radius = 21mm, Axis =70mm.

**(**USE **THIRD ANGLE METHOD** OF PROJECTION**)**

## SECTION B

*(Attempt **any two** questions from this Section.)*

**Question 4.**

Refer to **Figure** given below. Using the **FIRST ANGLE METHOD** of projections draw the: [15]

(i) Front View

(ii) Sectional Right Hand Side View (along section plane A-A)

**(DO NOT INSERT ANY DIMENSIONS)**

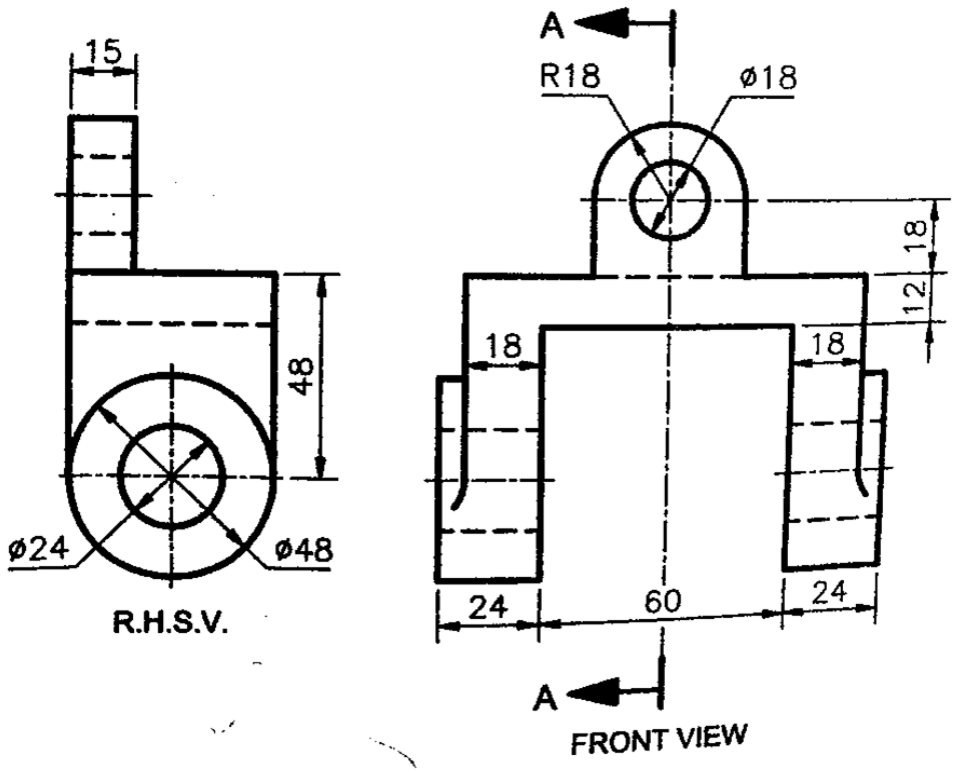


**FIGURE 3**

**Question 5.**

Refer to **Figure 4** given below. It shows the F.V. and T.V. of a right hexagonal pyramid in **FIRST ANGLE METHOD** of projections. Its axis is perpendicular to the horizontal plane and parallel to the vertical plane. It is cut by a section plane which is perpendicular to the vertical plane and inclined at $45^0$ to the horizontal plane. The vertical trace V.T. is shown in the figure. [15]

Given: Side of Base =35mm

Length of Axis = 75mm

Draw the:

(i) Front View

(ii) Sectional Top View

(iii) True Shape of section

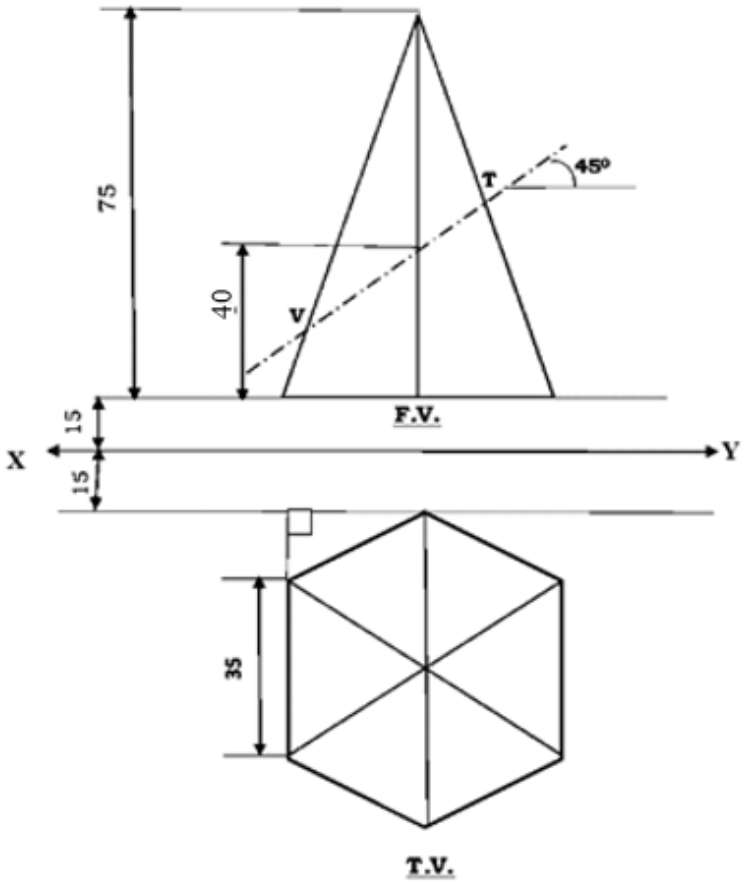


**FIGURE 4**

**Question 6.**

Refer to Figure 5. Copy the given Isometric View [15]

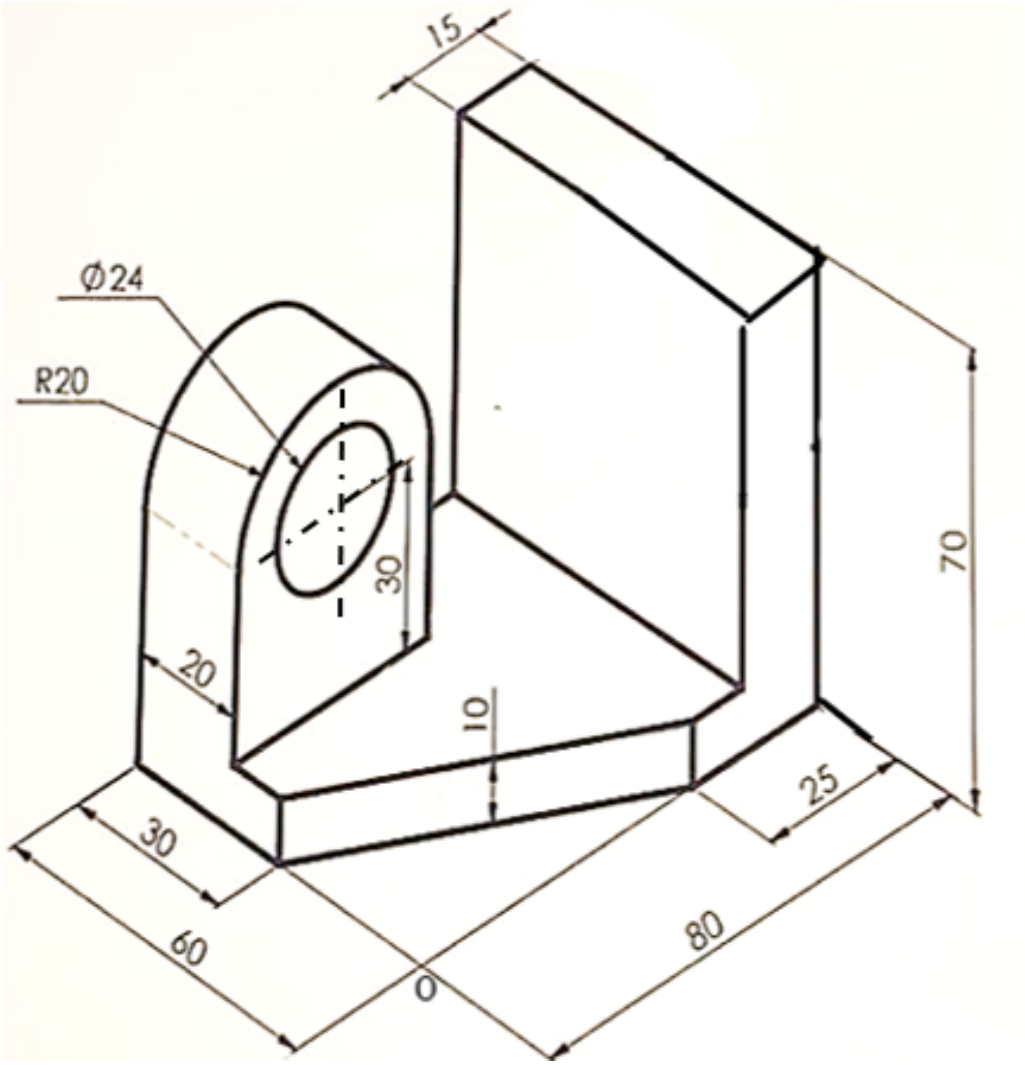


**FIGURE 5**