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

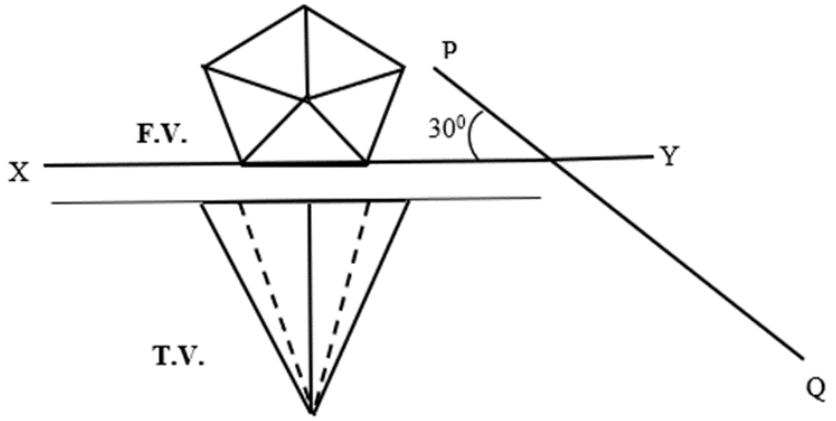

FIGURE 1

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° to the horizontal.

(DO NOT INSERT ANY DIMENSIONS)

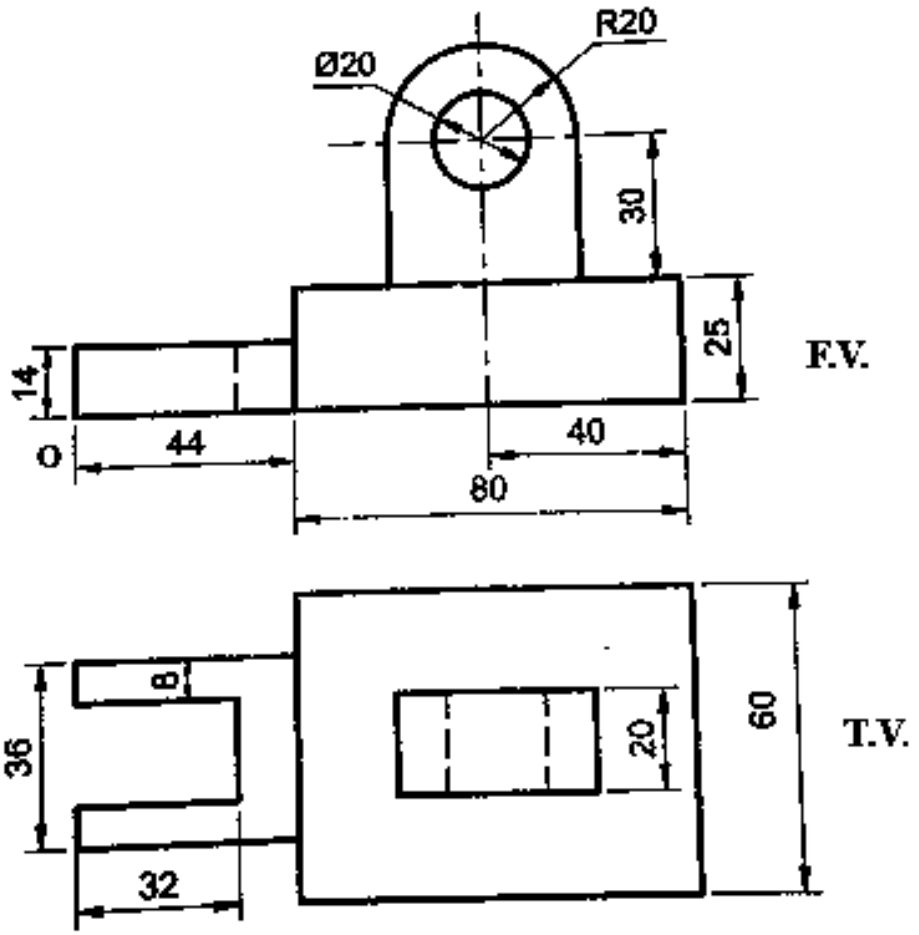

FIGURE 2

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)

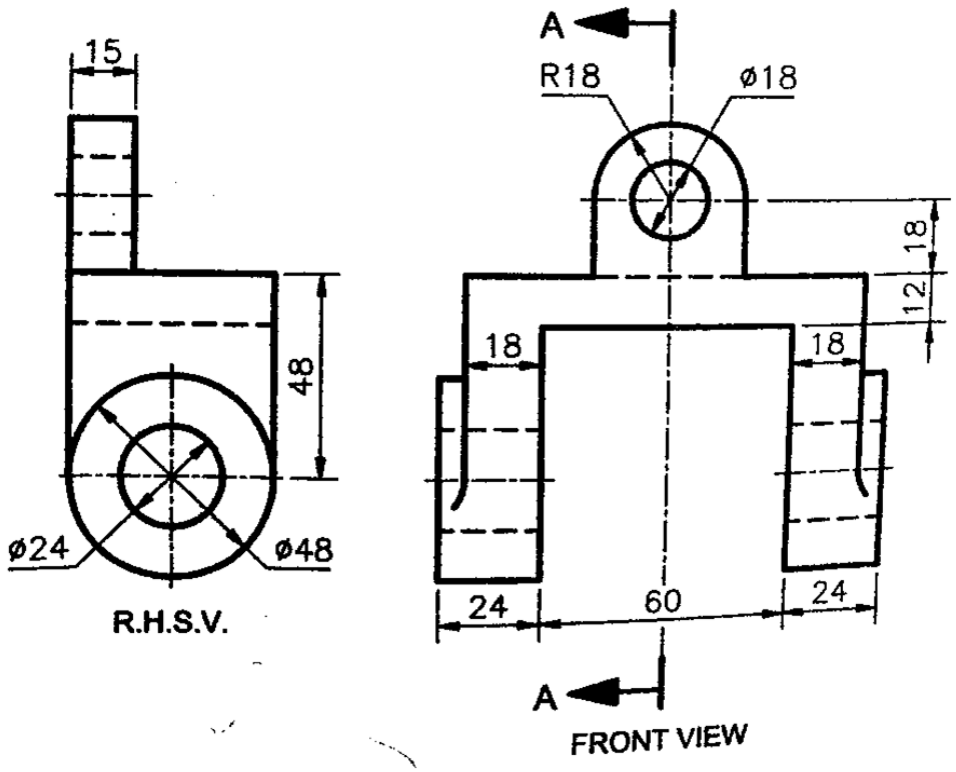

FIGURE 3

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

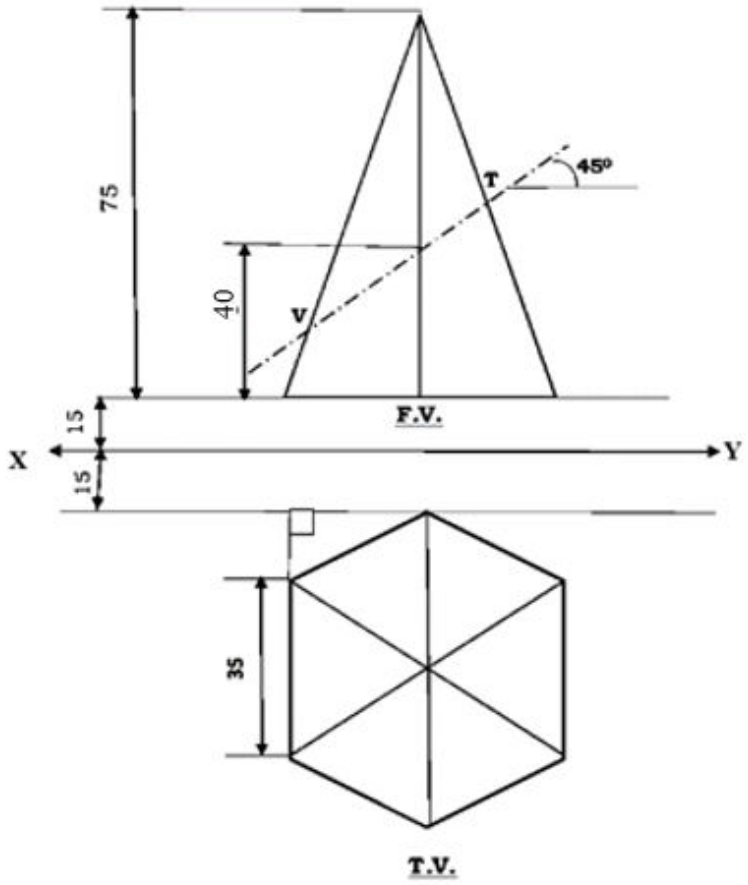

FIGURE 4

Question 6.

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

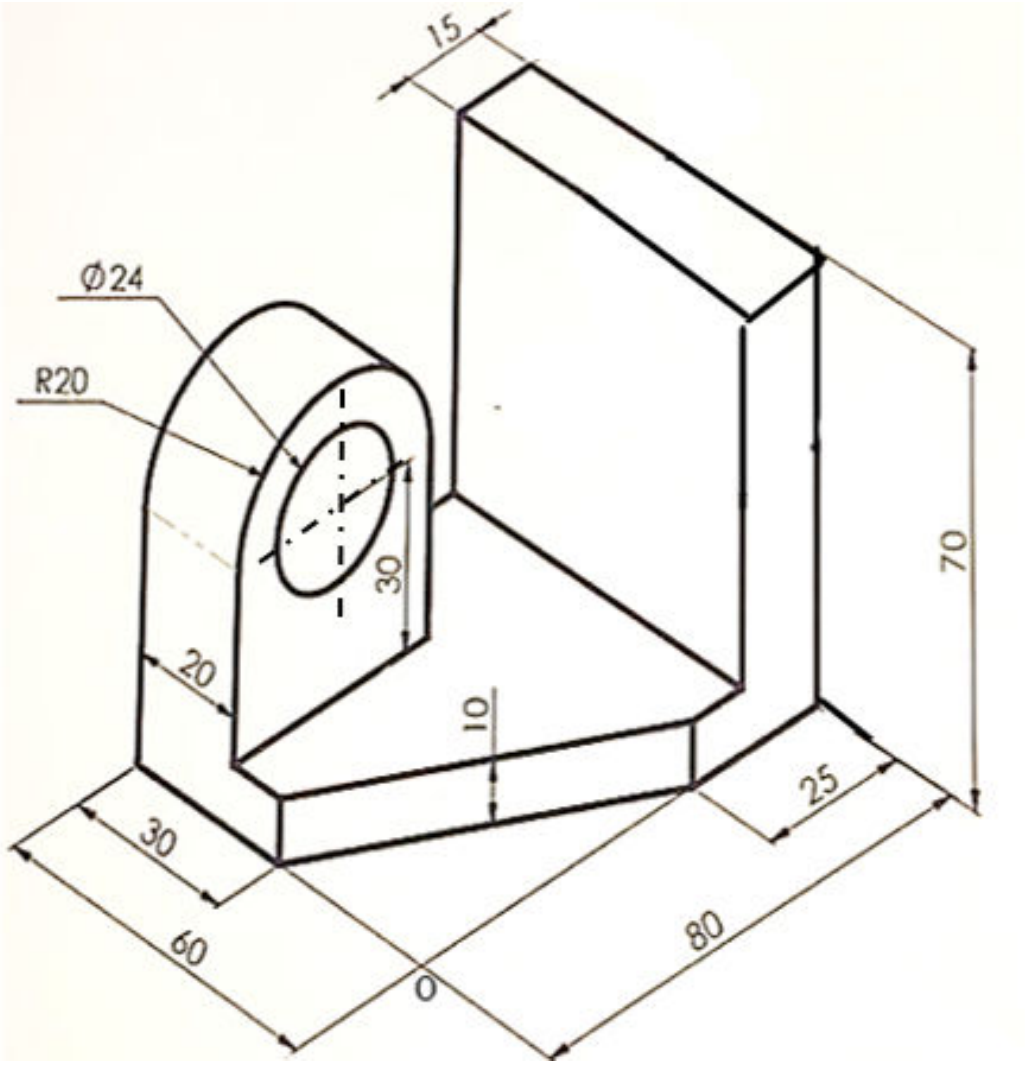

FIGURE 5