

Lilavatibai podar High School, ISC
Preliminary Examination-II (2021-2022)
TECHNICAL DRAWING APPLICATIONS

Maximum Marks: 50

Time allowed One and a half hours (inclusive of reading time)

(Attempt any two questions from Section A & Section B).

The marks intended for questions are given in brackets [].

All questions must be answered in full scale.

All construction lines must be shown.

All dimensions are in millimeters unless specified otherwise.

SECTION A (20 MARKS)

(Attempt any two questions from this Section).

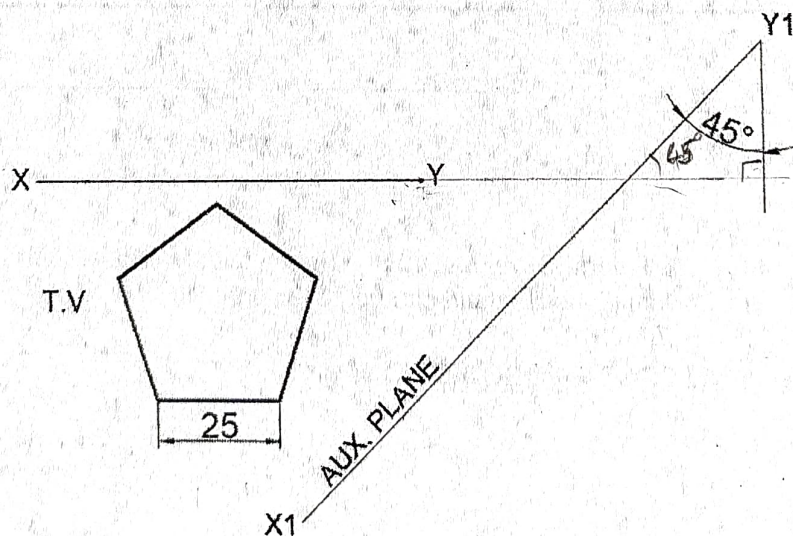
Question1.

Figure shows T.V. of a right pentagonal prism whose axis is perpendicular to the horizontal plane HP. and parallel to the vertical plane V.P. in **FIRST ANGLE METHOD** of projections copy TV Complete FV & draw the **Auxiliary T.V.** The auxiliary plane X_1-Y_1 is shown in the figure.

Given: Side of Base = 25mm

Length of Axis – 60mm

[10]



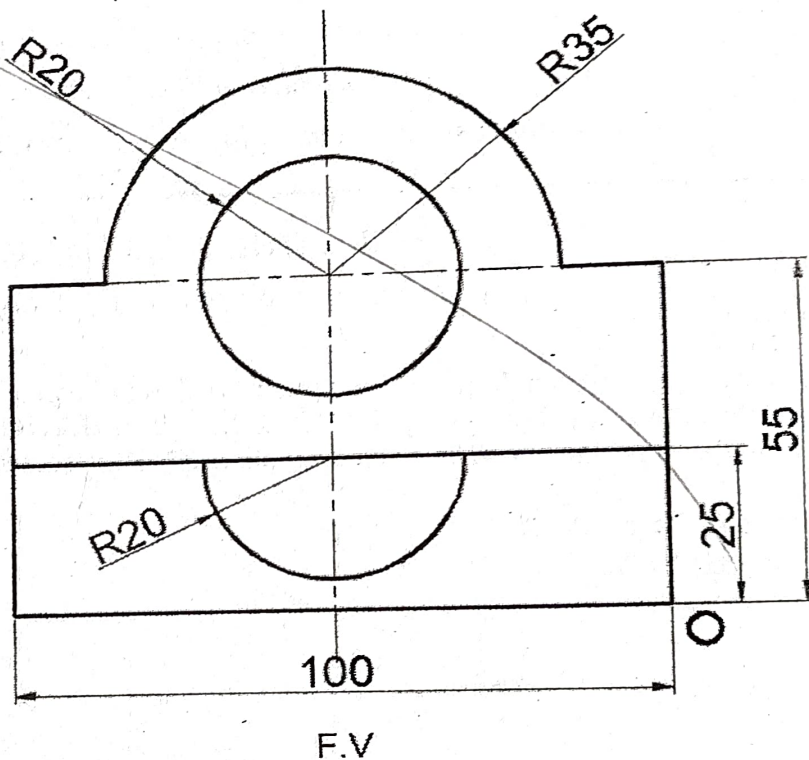
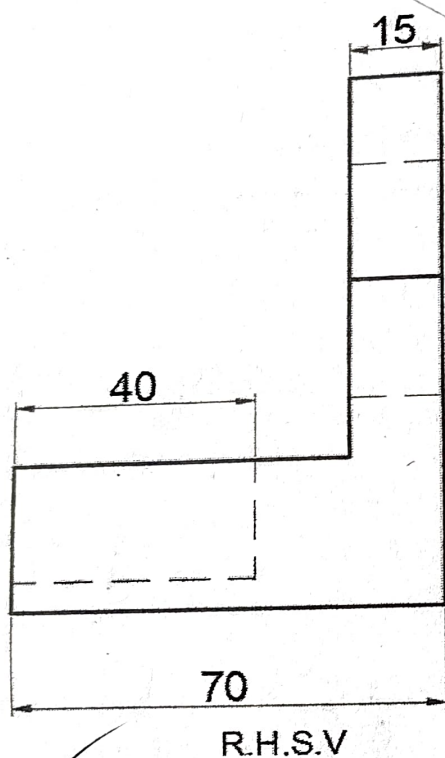
This paper consists of 5 printed pages

Turn over

Question2.

Refer to **Figure** given below. It shows the FV & RHSV of an object in the **FIRST ANGLE METHOD** of projections.
Draw the **OBLIQUE VIEW** if the receding axis is inclined at 45° to the horizontal.
(DO NOT INSERT ANY DIMENSIONS)

[10]



Question3.

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.
Base Radius = 21mm, Axis = 70mm.

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

[10]

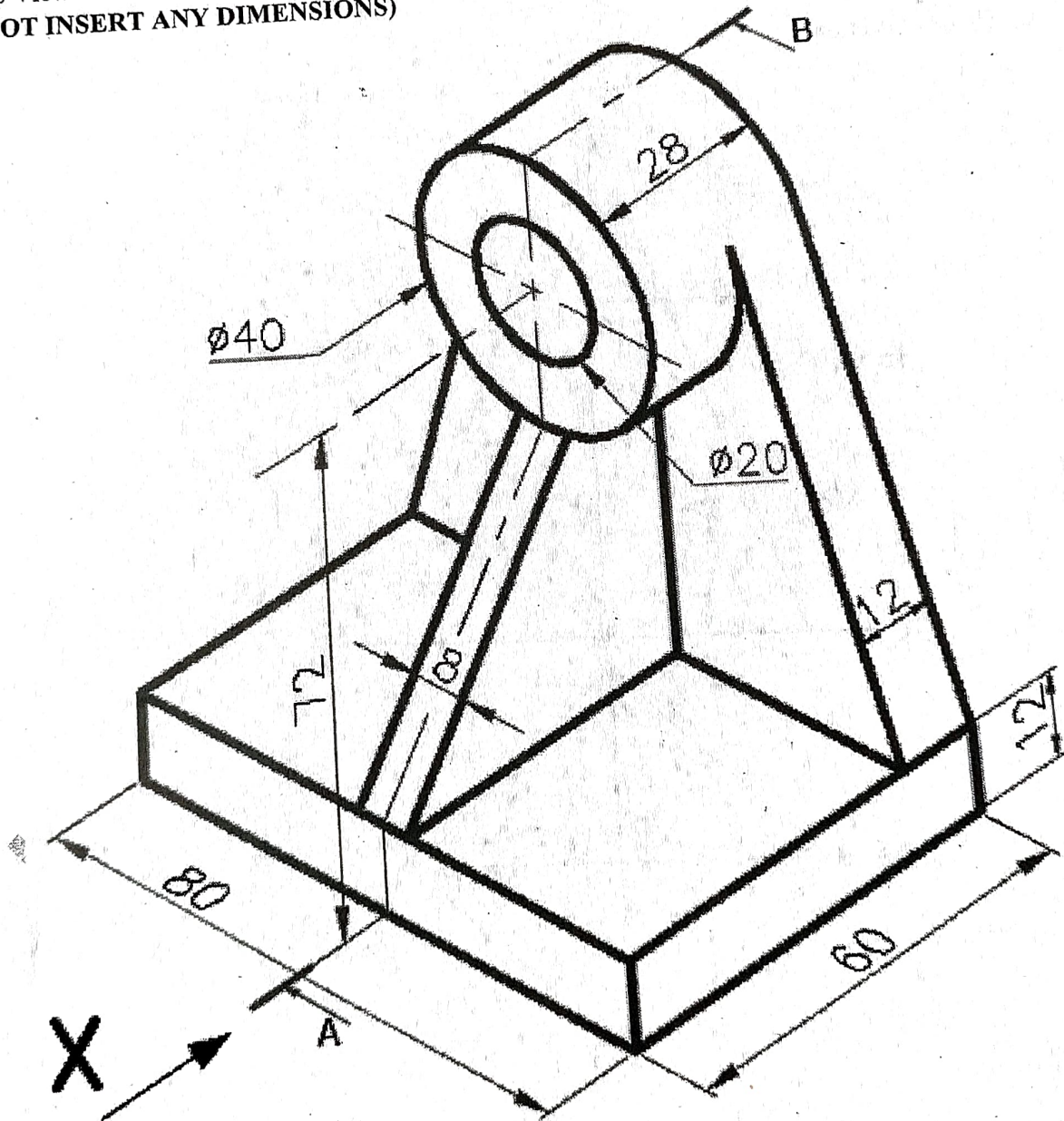
SECTION B (30 MARKS)
(Attempt any two questions from this Section).

Question 4.

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

- (i) Front view (ii) Sectional side View (along section plane A - B)
(ii) Top View

[15]



Question5.

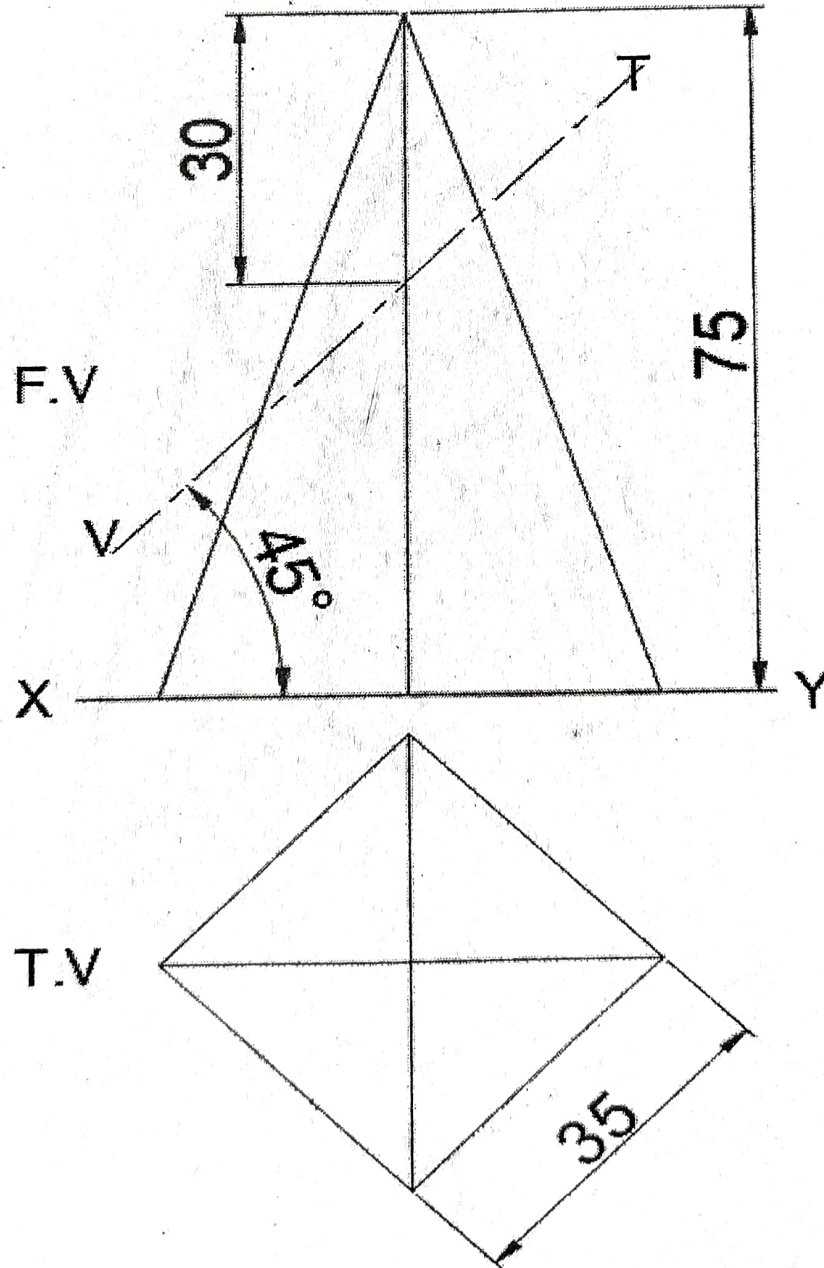
Refer to **Figure** given below. It shows the F.V. and T.V. of a right square base pyramid in **FIRST ANGLE METHOD** of projections. Its axis is perpendicular to the horizontal plane and parallel to the vertical plane. It is cut by a section plane which is perpendicular to the vertical plane and inclined at 45° to the horizontal plane. The vertical trace V.T. is shown in the figure.

Given: Side of Base = 35mm

Length of Axis = 75mm

Draw the:

- (i) Front View
- (ii) Sectional Top View
- (iii) True Shape of section



[15]

Question 6.

Refer to Figure. Draw an isometric View of the given fig.

[15]

