DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular End Semester Examination – Summer 2022

Course: B. Tech. (First Year All Branches Group B)

Semester: II

Subject Code & Name: BTES203G Engineering Graphics

Max Marks: 60

Date: 23/08/2022

Duration: 5 Hrs.

Instructions to the Students:

- 1. All the questions are compulsory.
- 2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
- 3. Use of non-programmable scientific calculators is allowed.
- 4. Assume suitable data wherever necessary and mention it clearly.

(Level/CO) Marks

Solve the following.

Construct a regular pentagon of 30 mm side by general method. 06 Remember Explain the different methods of dimensioning. Understand 06

Q.2 Solve Any one of the following.

Draw the elevation, top view and side view of the object shown in figure 1. Apply Alldimensions are in mm.

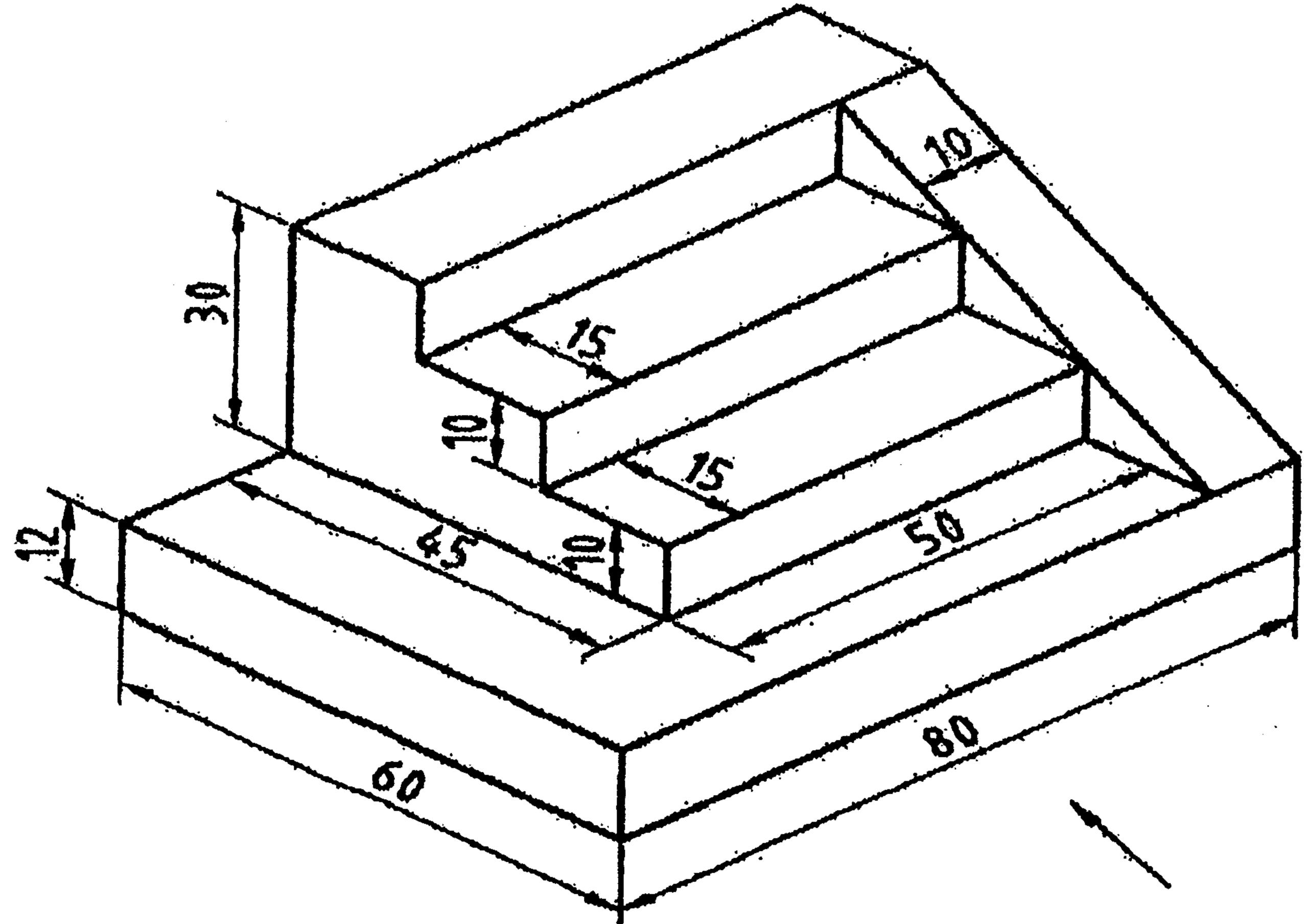


Figure:1

Draw the elevation, top view and side view of the object shown in figure 2. All Apply dimensions are in mm.

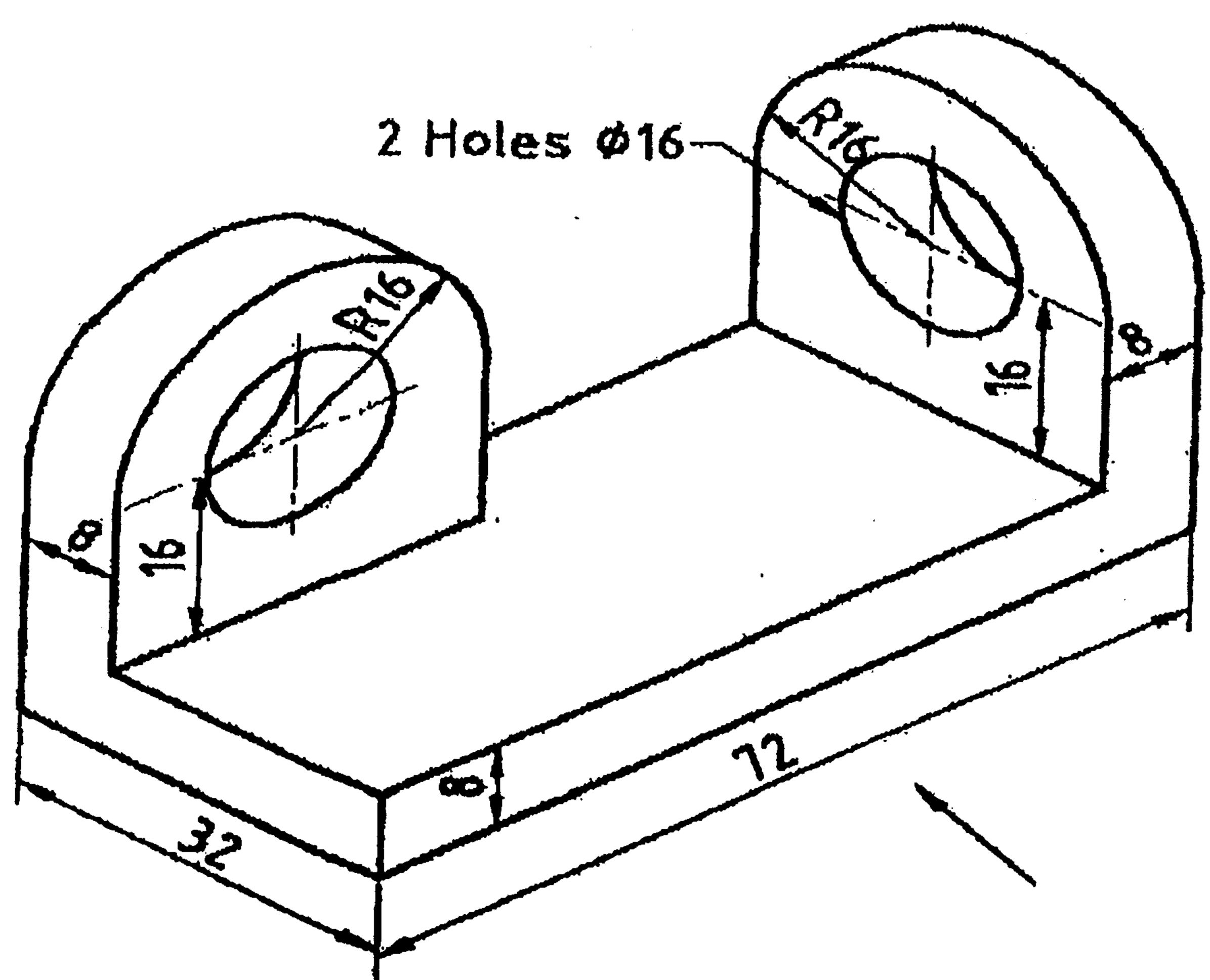


Figure: 2

Q. 3 Solve Any Two of the following.

Line AB is 75 mm long. It's F.V. and T.V. measure 50 mm & 60 mm long Evaluate respectively. End A is 10 mm above H.P. and 15 mm in front of V.P. Draw projections of line AB if end B is in first quadrant. Find angle with HP and VP. B) End A of a line AB is 25 mm below HP and 35 mm behind VP. Line is 30° Evaluate

inclined to HP. There is a point P on AB contained by both HP & VP. Draw projections; find inclination with VP and traces.

06 Evaluate A hexagonal plane has its one side in HP and Its apposite parallel side is 25 mm above HP and in VP. Draw its projections. Take side of hexagon 30 mm long. Solve Any Two of the following. A right circular cone, 40 mm base diameter and 60 mm long axis is resting on 06 Evaluate Hp on one point of base circle such that itsaxis makes 45° inclination with HP and 40° inclination with VP. Draw it's projections. 06 B) A frustum of regular hexagonal pyramid is standing on its larger base. On HP Evaluate with one base side perpendicular to VP. Draw it's FV & TV. Project it's auxiliary TV on an AIP parallel to one of the slant edges showing TL.Base side is 50 mm long, top side is 30 mm long and 50 mm is height of frustum. A cylinder 40 mm diameter and 50 mm axis is resting on one point of a base Evaluate 06 circle on VP while it's axis makes 45° with VP and FV of the axis 35° with

Synthesize

Q. 5 Solve the following.

HP. Draw projections..

F.V. and S.V. of an object are given. Draw its isometric view.

