SVKM

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C.N.M. SCHOOL & N. D. PAREKH PRE-PRIMARY SCHOOL
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IInd PRELIM EXAMINATION
JAN- 2008

STD: X^th   **Max Marks – 100**   **TIME: - 3 HOURS.**

# TECHNICAL DRAWING APPLICATION

*You must attempt **three** questions from section I & **two** questions from section II.*
Each section should be answered on a separate paper.
All questions must be answered in full scale.
All construction lines must be shown.
The intended marks for questions or parts of questions are given in bracket ( )
(This paper consist of 4 printed pages)


SECTION-I   (48 Marks)
(Attempt any **three** questions from this section.)

Q1) Construct a diagonal scale of R.F 1:500 . It should be long enough to measure 100 metres by using the scale Draw an isoscales Triangle with base 24.5m & altitude of 37.8m & equilateral triangle of side 20.8m, add both the triangles to get triangle PQR whose area is equal to sum of the area of two given triangles.   **(16)**

Q 2 . Convert the given orthographic views into oblique projection.   **(16)**
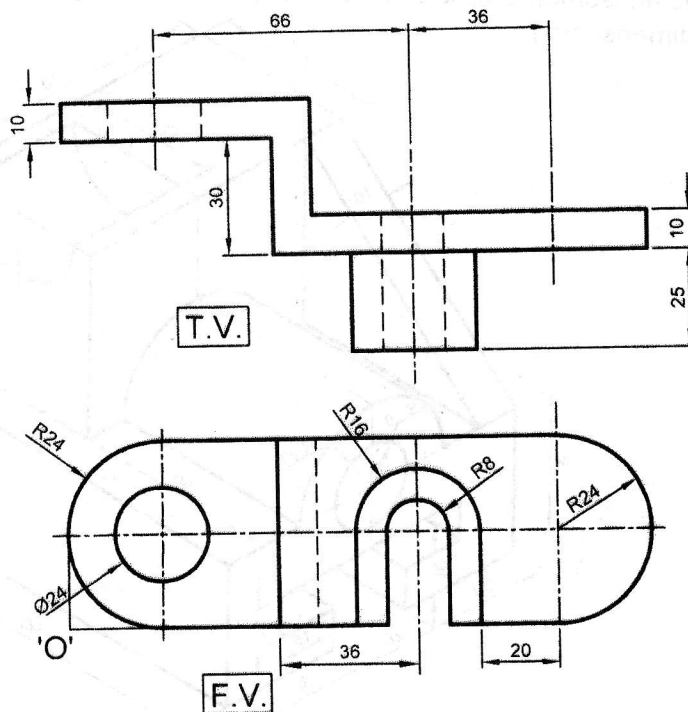
Q3) a. Copy the given fig. showing clearly all construction details & Insert the dimension. **(10)**
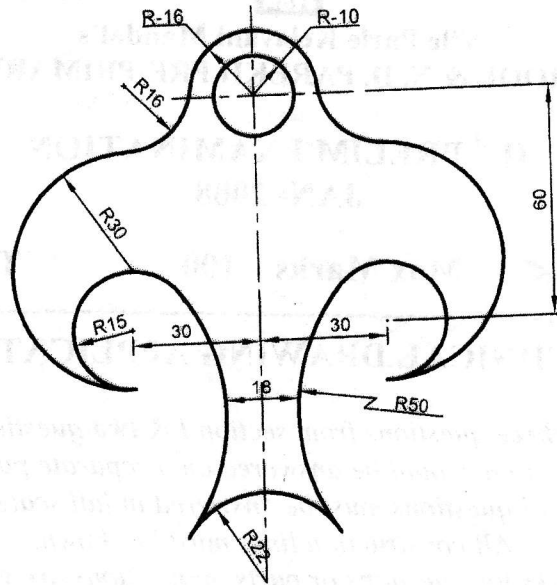
b. Inscribe a pentagon inside a circle of radius 35mm. **(2)**

c. Draw an equilateral triangle of side 40 mm describe a circle about an equilateral triangle
& record its length of circumferance by geometrical method. **(4)**

Q4) a. Inscribe three circles inside a circle of radius 40mm such that each circle should touch
each other & touches the outer circle. **(6)**

b. Construct a parabola of base= 80mm & axis height =50mm by using tangent
method . **(6)**

c. Construct a quadrilateral ABCD with I(AB) = 80mm , I(BC) =45mm & I(AD) = 50mm
& also ∠ DAB = 60° , ∠ ABC = 73° & Convert it to a triangle having same area. **(4)**

Q5) Figure shows an isometric view of a machine part copy the given isometric view. **(16)**
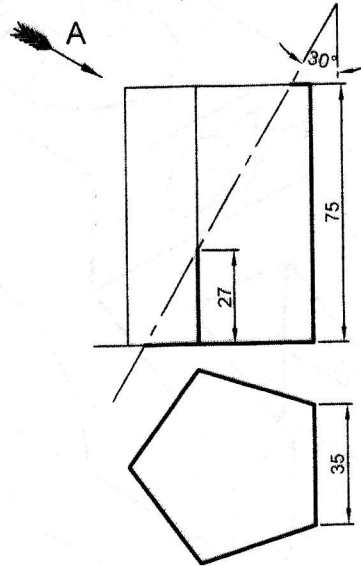(insert All dimensions.)
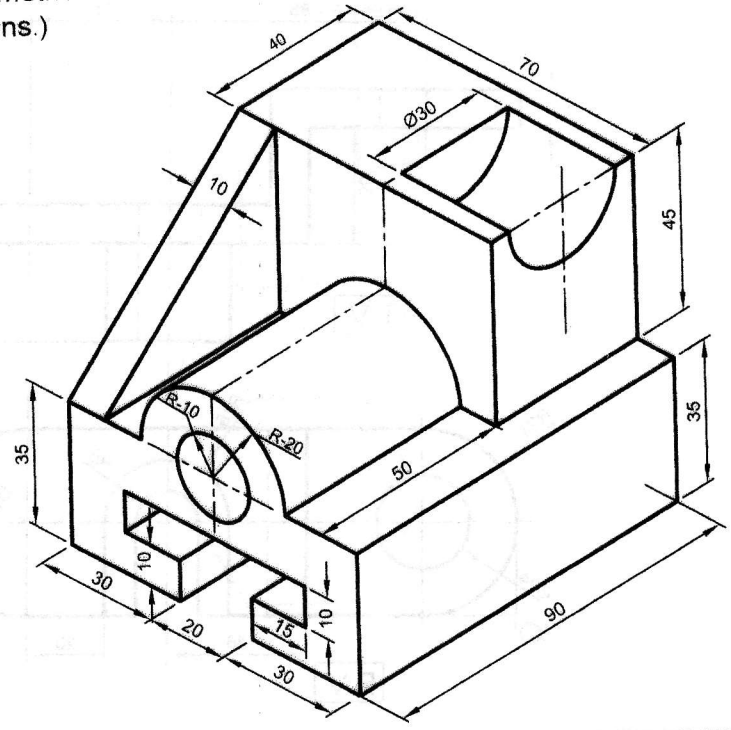
SECTION-II (52 Marks)
(Attempt any **two** questions from this section.)

Q6) Fig. Shows a Pentagonal Prisms resting on H.P on its base. It is cut by sectional plane as shown in the Fig. Draw the following.
    (i) Given front view.
    (ii) Sectional top view.
    (iii) Sectional Side view.
    (iv) Auxiliary Top view (from arrow direction 'A') of retain Prism .
    (v) D.L.S of retain Prism.

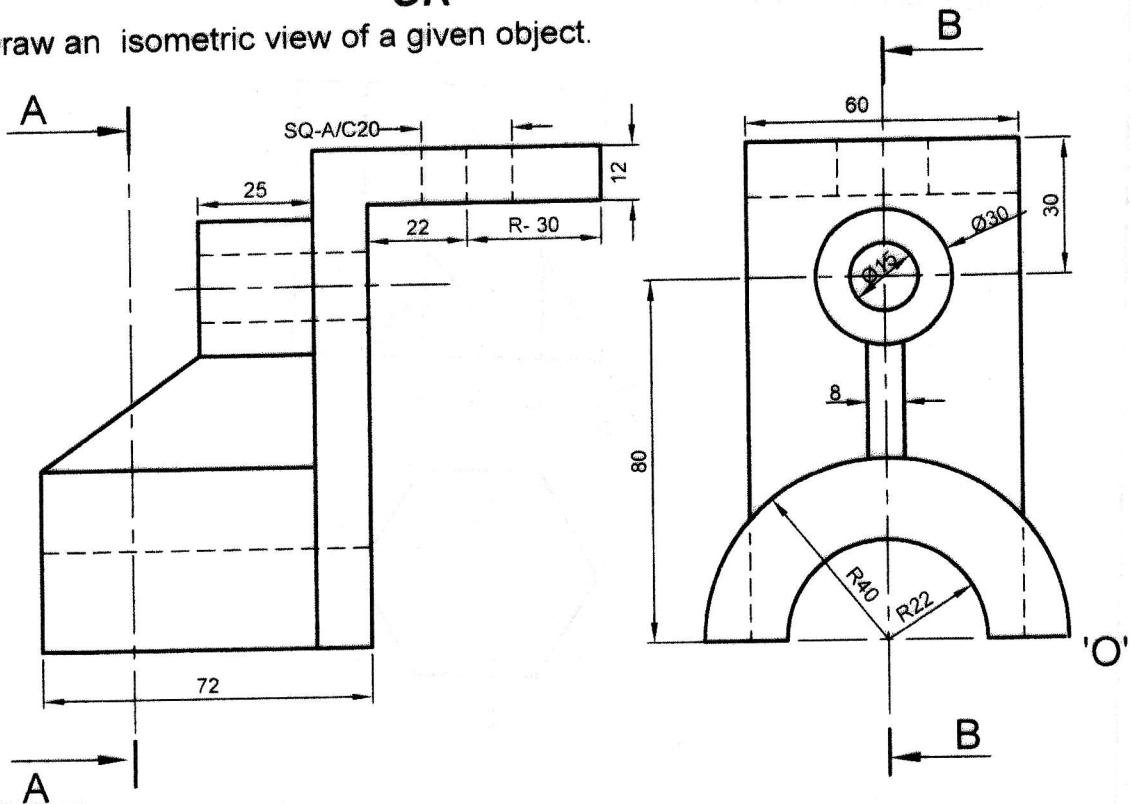**(26)**

Q 7) FiG. Shows Two Views of an object . Draw
    (i) Sect. **F.V** along **B-B**   (ii) Top view (iii) Sect. **S.V** along **A-A**
    Insert 10 Important Dimension.

(26)
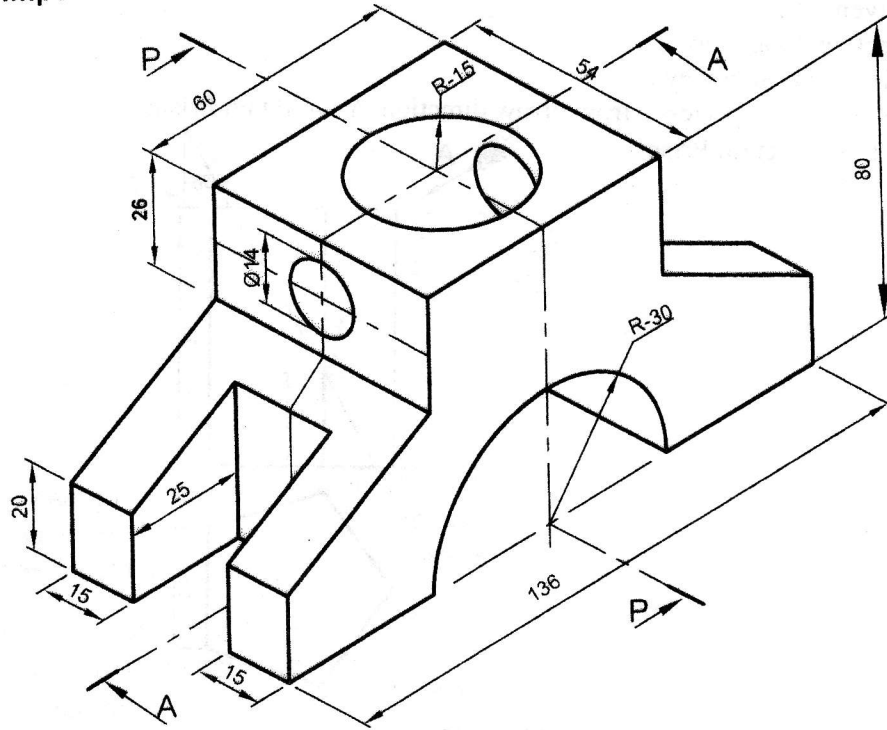
OR

Draw an isometric view of a given object.

Q.8) a. Draw Using **third angle** method of projection.
   (i) Sectional F.V along **A-A** ,
   (ii) T.V,
   (iii) Sectional S.V along **P-P**
   Insert 10 Important dimension.   **(16)**

b . Fig. shows F.V of a cut hexagonal prism copy the given fig. & draw the development of lateral
   Surface. for the retain prism.   **(10)**