GREENLAWNS HIGH SCHOOL
TERMINAL EXAMINATION YEAR 2025 - 2026

SUBJECT : TECHNICAL DRAWING APPLICATIONS CLASS : X
TIME : 3 HOURS MARKS : 100

Instructions:

- You must attempt three questions from Section A and two questions from Section B.
- Each Section must be answered on separate sheet.
- All construction lines must be shown.
- All dimensions are in mm.
- The intended marks for questions are given in brackets.

SECTION A (48 Marks)
(Attempt any 3)

Q.1 Construct a suitable scale in which 5cm line represents 2m. Draw the scale to measure up to 7.08m. Use the above scale to draw two tangents to a circle of radius 2.65m from a point 5.08m away from its Centre. (16)

Q.2 Refer Figure (1) . Copy the given template (Insert any six dimensions. (16)

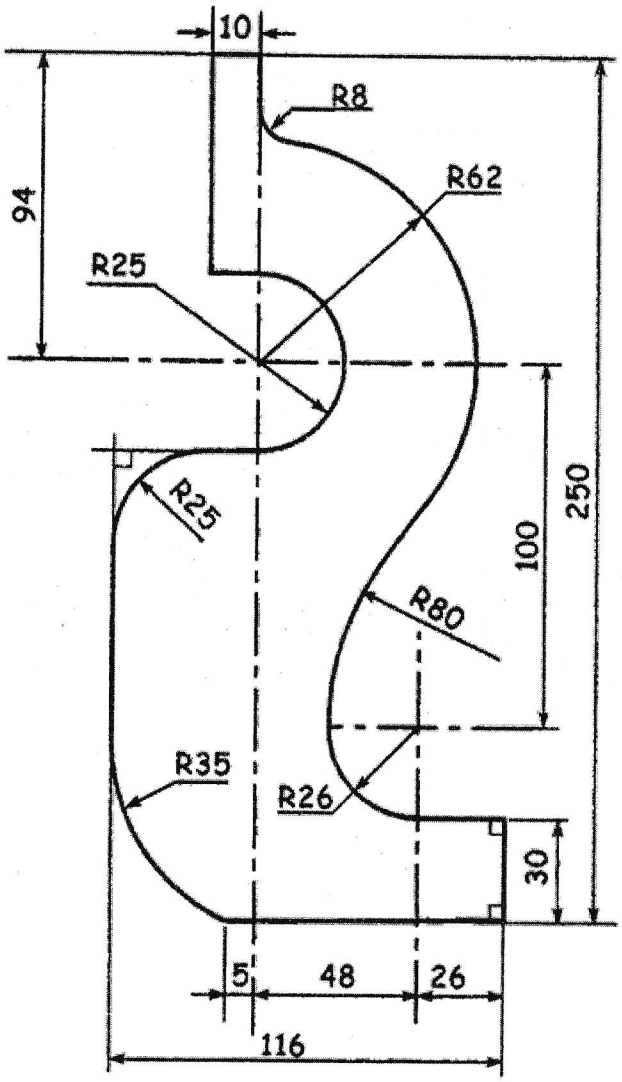


Figure 1.

Q.3 Draw Front view, and Top view of a hexagonal pyramid of side of base 30mm and axis height 75mm resting with its axis inclined at 30° to the H.P. and parallel to V.P One side of its base is inclined at 45° to V.P. (Use FIRST angle method). (16)

Q.4 a) Construct an Ellipse by OBLONG method. Given Base length = 140mm and Minor axis = 80mm. (10)

b) Construct a rectangle ABCD. Given Perimeter of quadrilateral = 215mm and ratio of sides AB:BC= 2:5. Convert it into an Isosceles triangle whose area is equal to area of Rectangle. (6)

Q.5 Refer Figure (2). It shows F.V and R.H.SV of an object. Draw the oblique view when the receding axis is inclined at 45° to the horizontal. **Use scale 2:1** Do not insert any dimensions. (16)

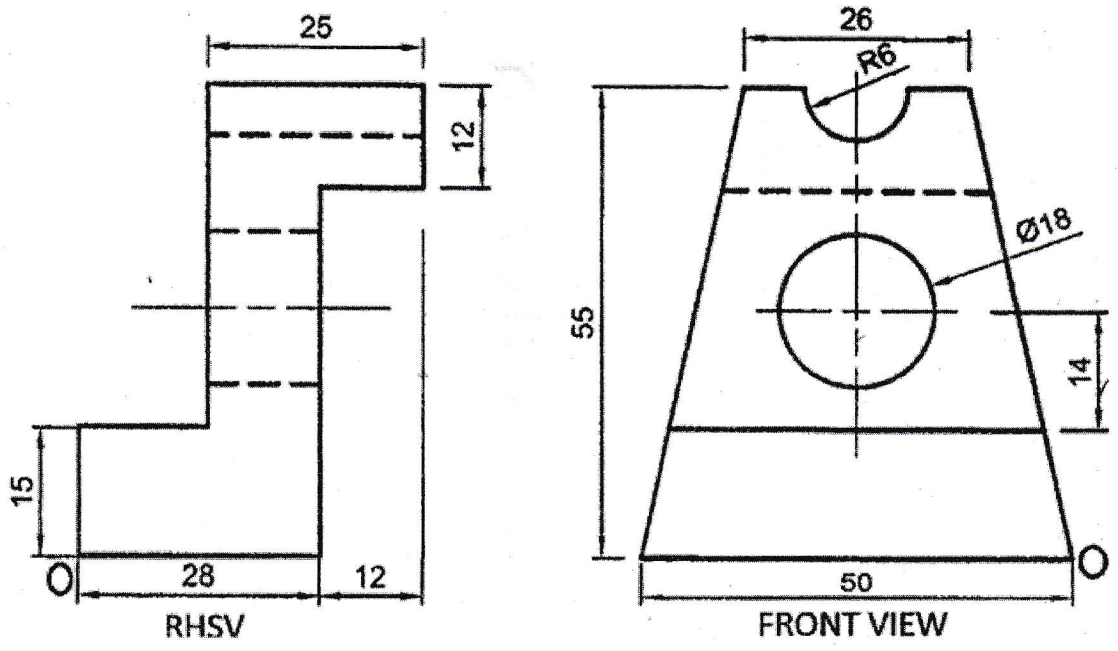


Figure 2.

SECTION B (52 Marks)

(Attempt any two questions)

Q.6 Refer Figure (3). It shows F.V and T.V of a right Pentagonal pyramid in the FIRST angle method of projection. Its axis is perpendicular to the H.P. and parallel to V.P. It is cut by a cutting plane inclined at 60° to H.P. and perpendicular to the vertical Plane as shown in the figure.

Given: Side of base = 35mm, Length of the Axis = 75mm

Draw the following views using First angle method of projection

i) Front View (2)

ii) Sectional Top view (8)

iii) Sectional Left hand side view (8)

iv) Development of the remaining portion (8)

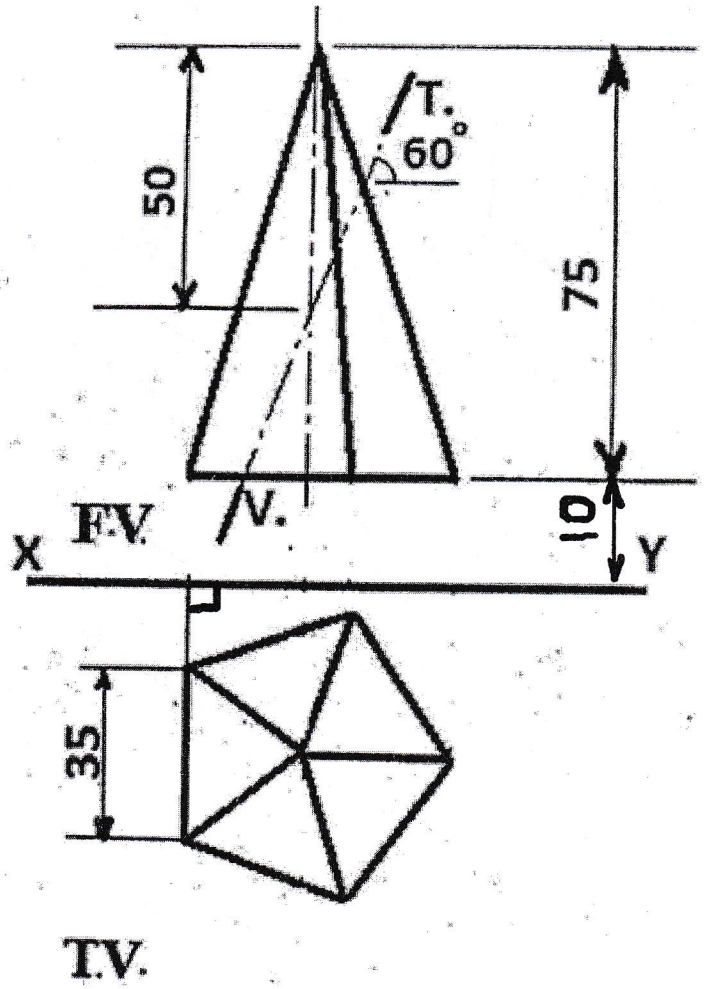
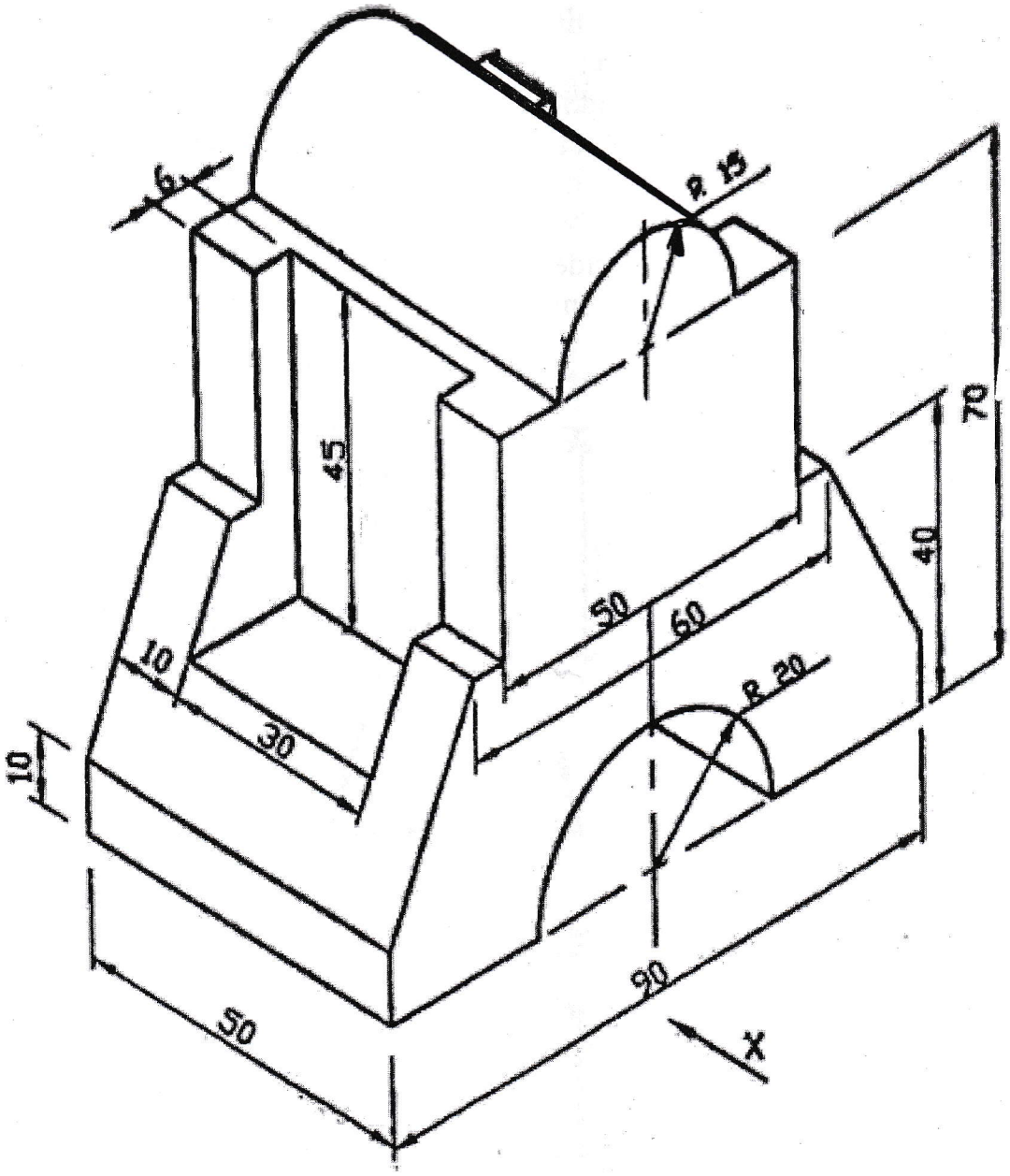


Figure 3.

Q.7 Refer Figure (4).Copy the given Isometric Figure (26)
(Do not insert any dimensions).



x

Figure 4.

Q.8 Refer Figure(5). It shows a pictorial view of an object . Draw in First angle method of projection (26)

a) Sectional Front View along X-X (10)

b) Top View (8)

c) Right hand side view (8)

(Insert any six dimensions)

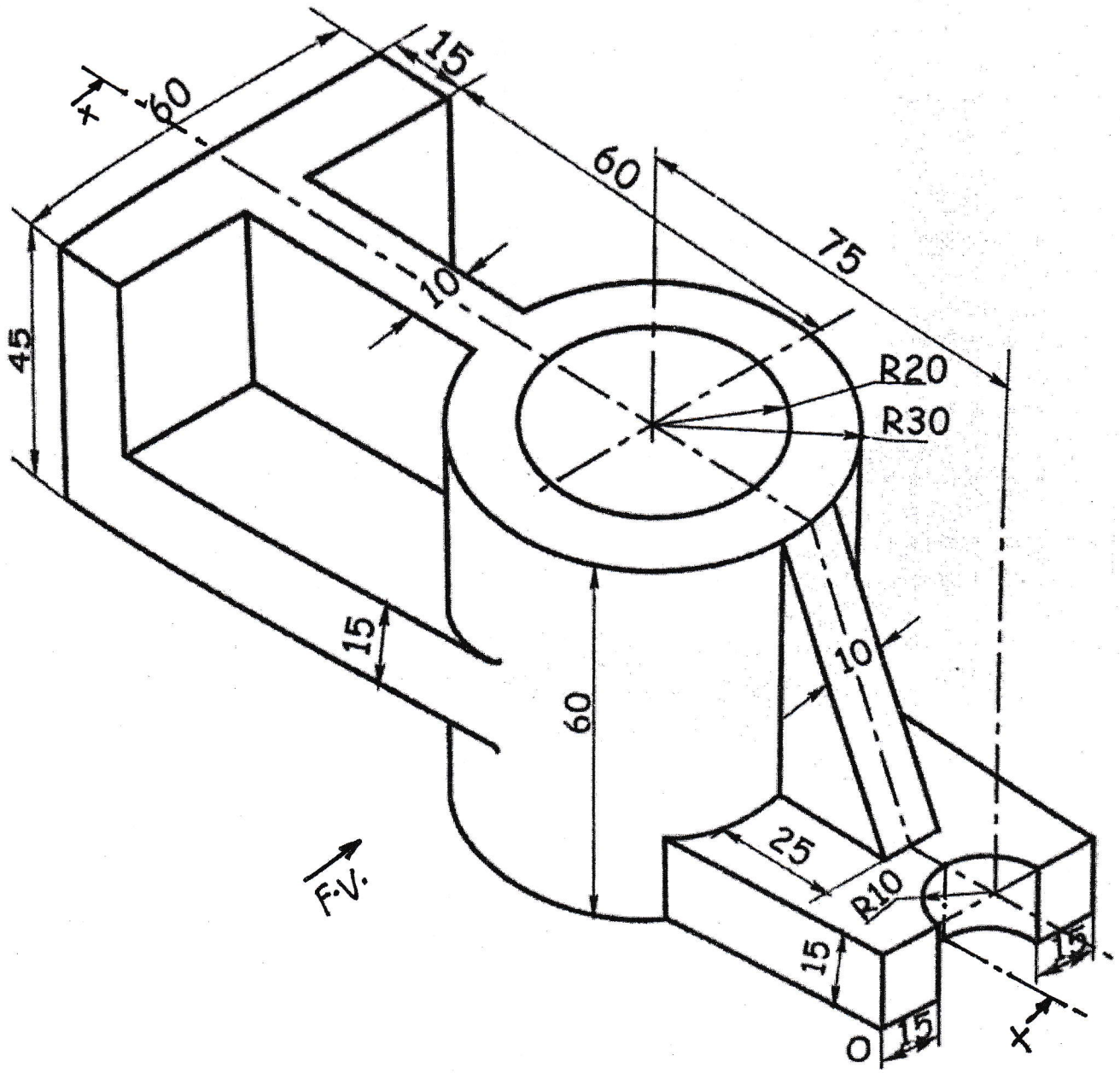


Figure 5