GREENLAWNS HIGH SCHOOL
FINAL EXAMINATION YEAR 2025 - 2026

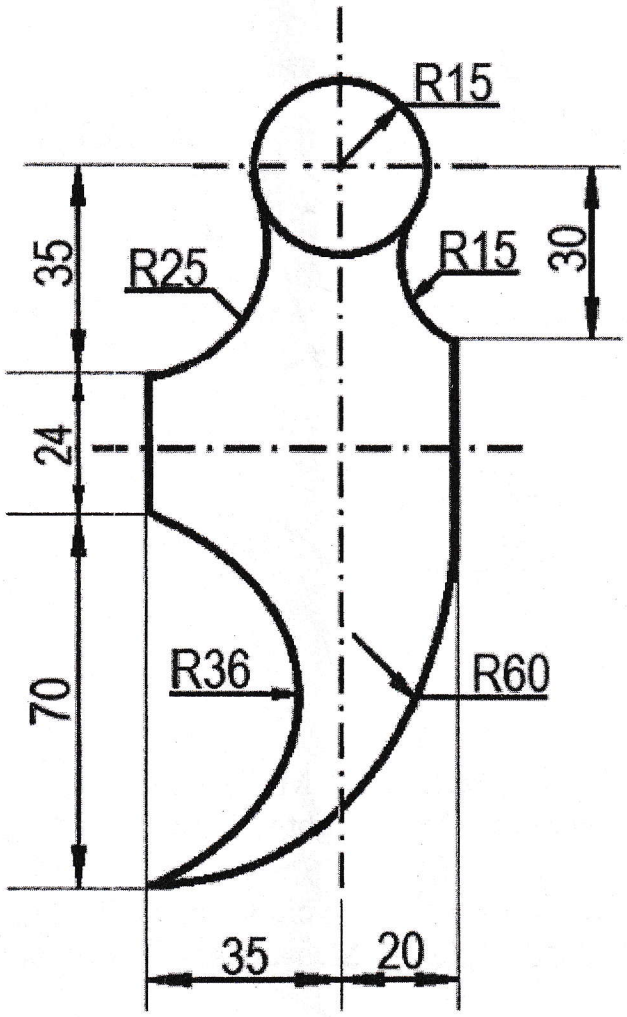
SUBJECT : TECHNICAL DRAWING APPLICATIONS CLASS : IX
TIME : 3 HOURS MARKS : 100

Instructions:

- You must attempt three questions from Section A and Compulsory 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 Refer **Figure (1)**. Copy the given figure . Insert any six dimensions. (16



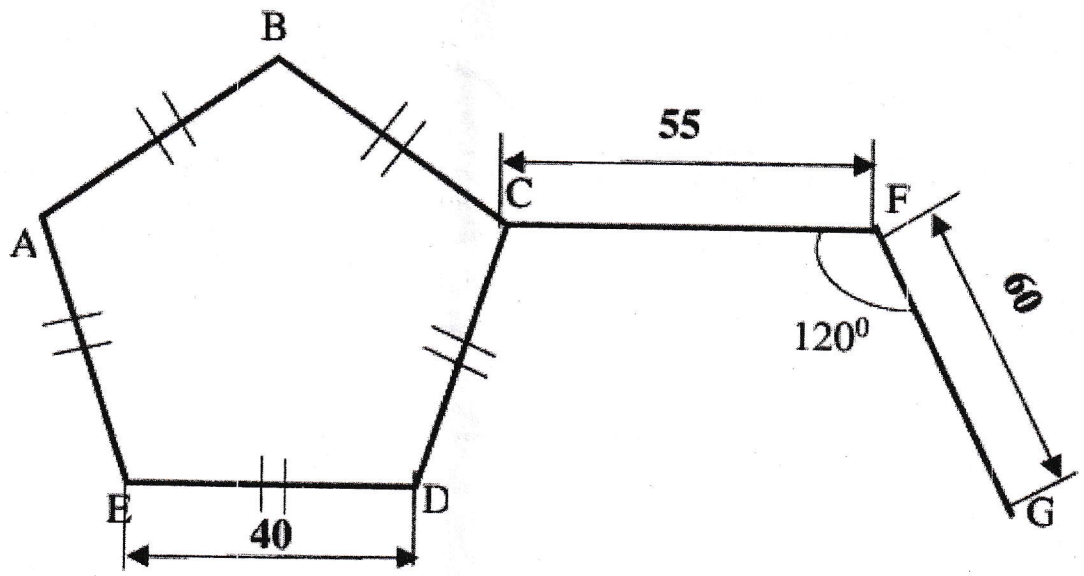
Figure(1)

Q.2 Construct a Plain Scale long enough to measure length of 5 meter. Given R.F is 1:50. Show the data and working neatly. (16)
Taking the measurements from the scale constructed, draw a neat scale diagram of a regular Pentagon ABCDE of side 2.6 meters. Draw a Triangle equal in area to the Pentagon.

Q.3 Construct an ELLIPSE by OBLONG METHOD (16)
Given Major Axis = 150mm, Minor Axis = 80mm.

Q.4 a) Construct a Rectangle of length 90mm and breadth 30mm. Draw a Square equal in area to the Rectangle. (8)

b) Refer to **Figure 2** given below. Copy the given figure and then construct a continuous curve passing through points A,B,C,F and G in order (8)



Figure(2)

Q.5a) Construct a PARABOLA using TANGENT METHOD (10)
Given Base length = 140mm and Axis height = 70mm

b) Draw Transverse Common Tangent to two circles of radii 30 mm each with distance between their centers 110mm. Measure and record its length. (6)

SECTION B (52 Marks)

(Attempt Both Q6 and Q7)

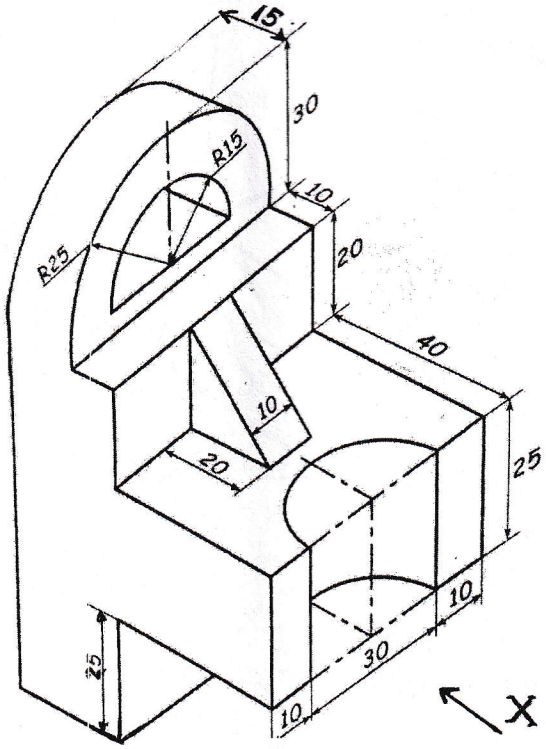
Q.6 Attempt any **one** from this question

Refer **Figure(3)**.It shows pictorial view of an object . Draw using FIRST angle method of projection (26)

i) Front View

ii) Top View

iii) Left Hand Side View



Figure(3)

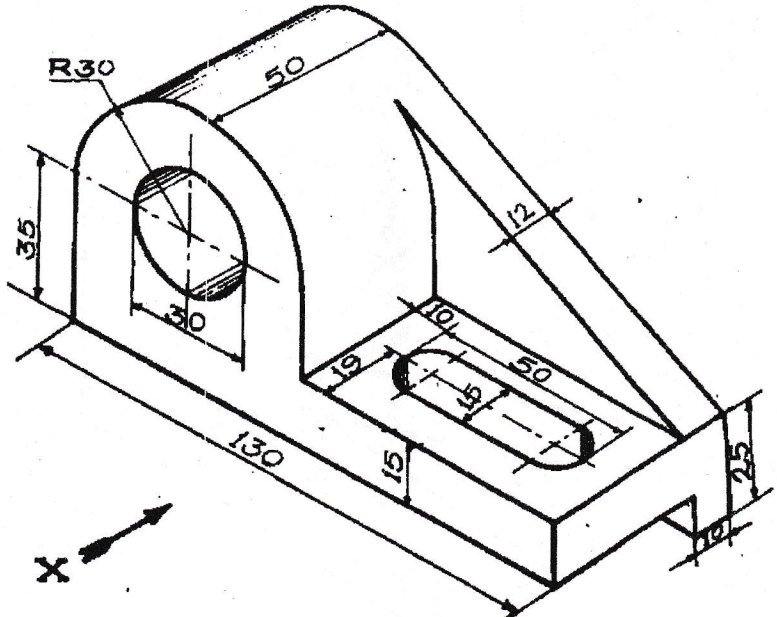
OR

Refer **Figure(4)**.It shows pictorial view of an object . Draw using FIRST angle method of projection (26)

i) Front View

ii) Top View

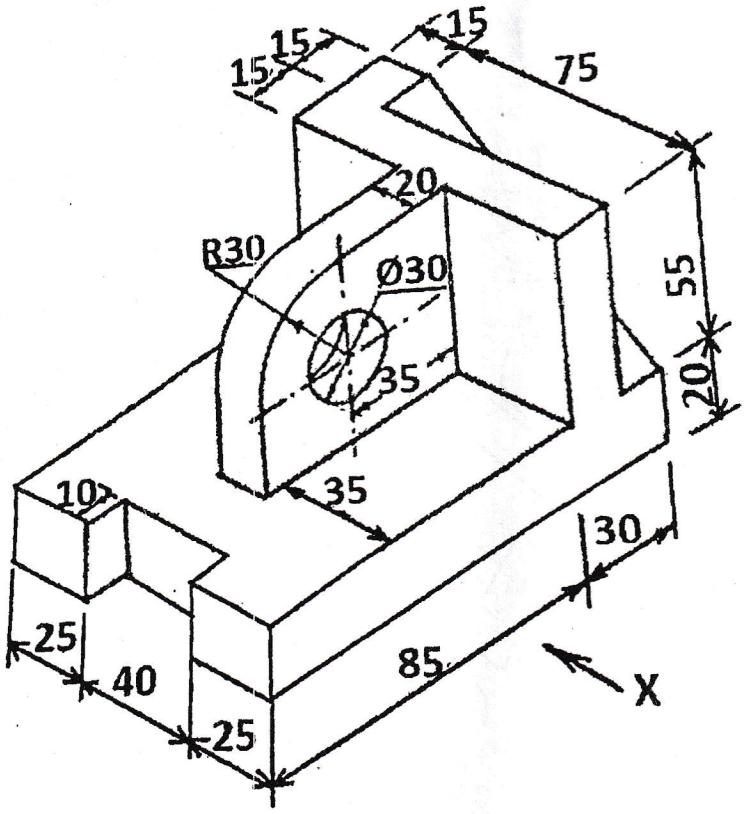
iii) Right Hand Side View



Figure(4)

Q.7 Attempt any one from this question.

Refer **Figure (5)**.It shows the pictorial view of an object. Copy the given figure. (26)
(Do not insert any dimensions).



Figure(5)

OR

Refer **Figure (6)**.It shows the pictorial view of an object. Copy the given figure. (26)
(Do not insert any dimensions).