

GREENLAWNS HIGH SCHOOL
TERMINAL EXAMINATION YEAR 2024 - 2025

SUBJECT : TECHNICAL DRAWING APPLICATIONS
TIME : 3 HOURS

CLASS : X
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.

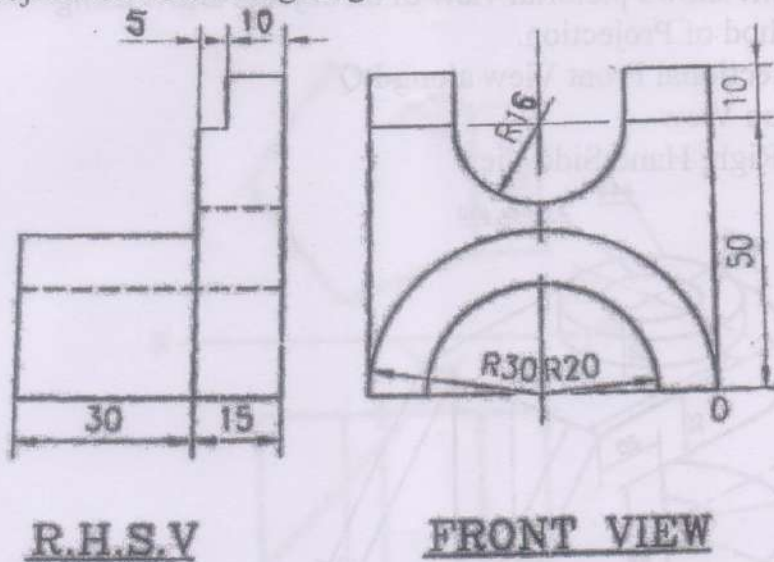
SECTION A (48 Marks)
(Attempt any 3)

Q.1 Construct a Plain Scale long enough to measure 2.1 decimeter. Given R.F. = 2:5. Show the data and the working neatly. Taking the Measurements from the scale constructed draw a square of diagonal 2.1 decimeter. Inscribe an octagon inside the square. (16)

Q.2a) Construct a Triangle equal in area to the Pentagon of side 45mm. (8)

b) Inscribe 3 circles inside a circle of radii 55mm. (8)

Q.3 Refer Figure (1). It shows two views of an Object. Draw the Oblique View of the object. Use Receding Angle of 45° (16)

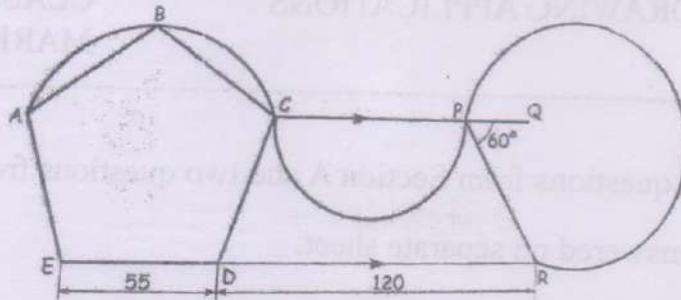


Figure(1)

Q.4a) Construct an ellipse of Major Axis 120mm and Minor axis 80mm using Arcs of circles method. (10)

b) Refer figure(2) below: Draw a smooth curve passing through

(6)



Figure(2)

Q.5 Refer Figure (3). Copy the given figure. Insert any 6 important Dimensions

(16)

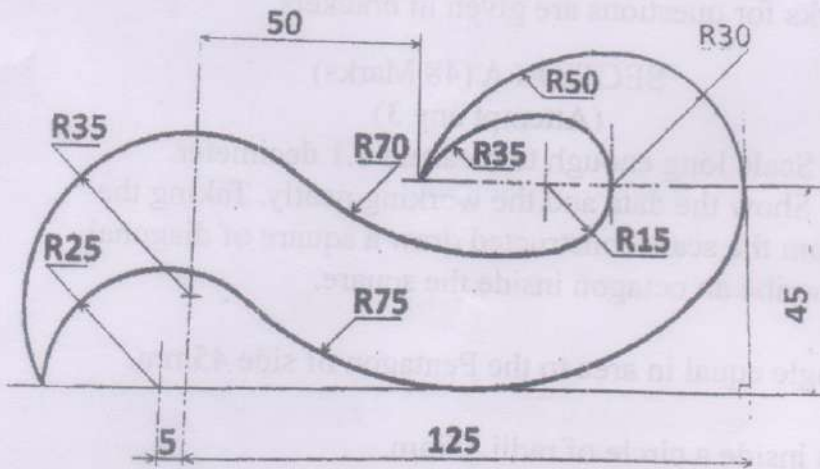


Figure (3)

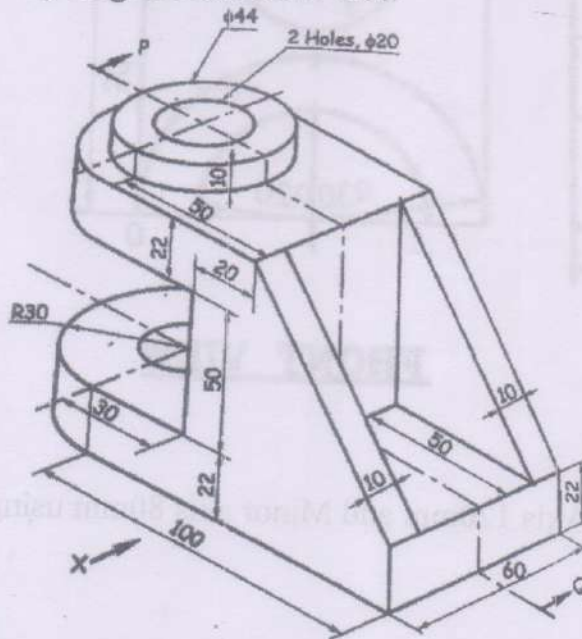
SECTION B

Attempt any 2

Q.6 Refer figure (4). It shows pictorial view of an object . Draw using First Angle method of Projection.

(26)

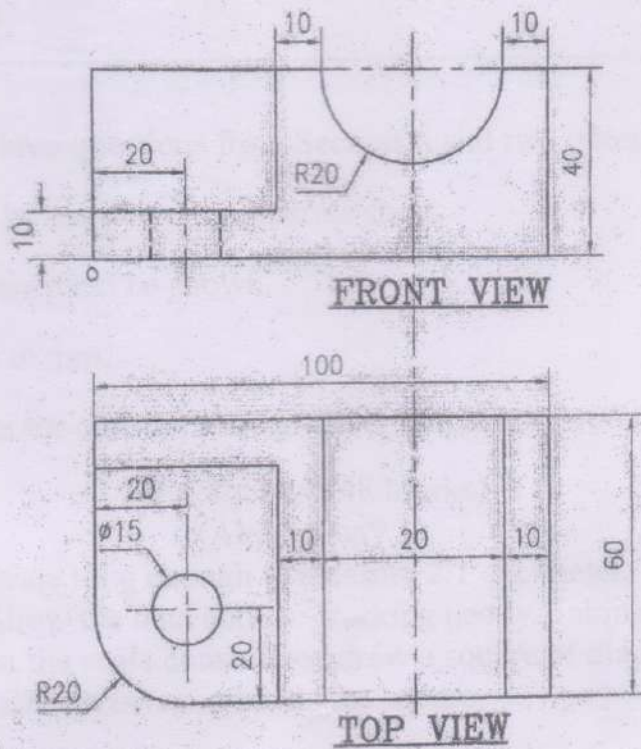
- i) Sectional Front View along PQ
- ii) Top View
- iii) Right Hand Side View



Figure(4)

Q.7 Refer Figure (5) Below: It shows two views of an object . Draw the Isometric View.

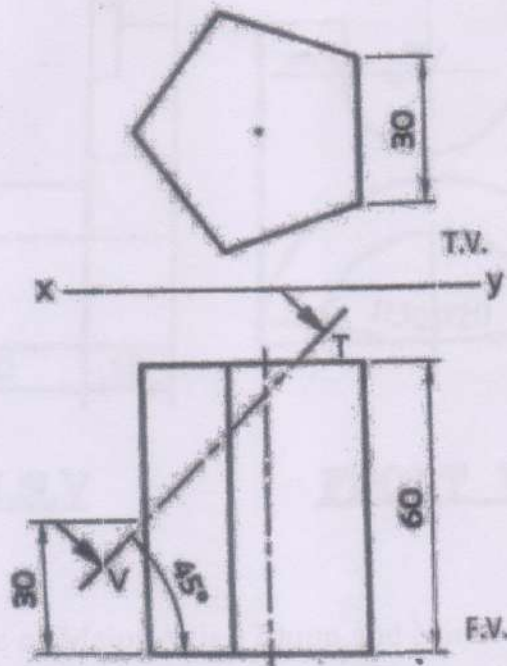
(26)



Figure(5)

Q.8 Refer Figure No .(6) below. It shows a pentagonal prism resting on its base on H.P. with one side of the base perpendicular to V.P in third angle method It is cut by a cutting Plane inclined at 45° to H.P. as shown in the figure. Draw a) Front View b) Sectional Top view c)Sectional L.H.S.V d) True Shape of Section e) Development of the retained portion.

(26)



Figure(6)