GREENLAWNS HIGH SCHOOL FINAL EXAMINATION 2023-24 TECHNICAL DRAWING APPLICATIONS

TIME: 3 HOURS

CLASS

: IX

MARKS

: 100

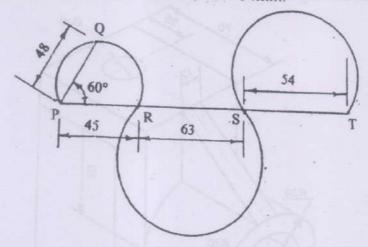
Instructions:

- 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)

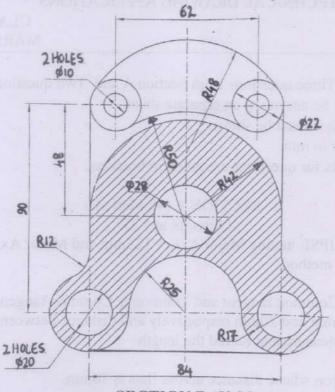
- Q.1a) Construct an ELLIPSE having Major Axis = 125mm and Minor Axis = 70mm (16)Using OBLONG method
- Q.2a) Construct Direct Common tangent and Transverse Common tangent to two circles of radii 55mm and 20mm respectively and distance between the (12)centres 108mm. Measure and record the length.
 - b) Construct a Hexagon whose distance across flats is 70mm. (4)
- Q.3a) Construct a Triangle of side 85mm. Draw 3 circles inside the triangle such that each circle touches two sides of the triangle and two other circles. (10)
 - b) Refer Figure (1). Draw a continuous arc passing through points P,Q,R,S and T as shown in the figure. Given PQ = 48mm, PR = 45mm, RS = 63mm, ST = 54mm.



Figure(1)

Q.4 Construct a PARABOLA of base length = 70mm and axis height = 85mm Using TANGENT method (16) Q.5 Refer Figure (2). Copy the given Figure . Insert any six dimensions

(16)



Figure(2)

SECTION B (52 Marks)
(Attempt both the questions)

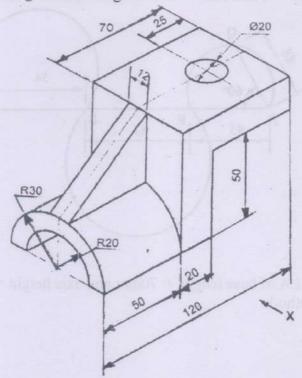
Q6. Refer Figure (3) Draw using First Angle Method of projection

(26)

- a) Front view
- b) Top view
- c) Left hand side view
- d) Dimensioning and labeling

(8)

- (8) Edit più francis esa
- (2)



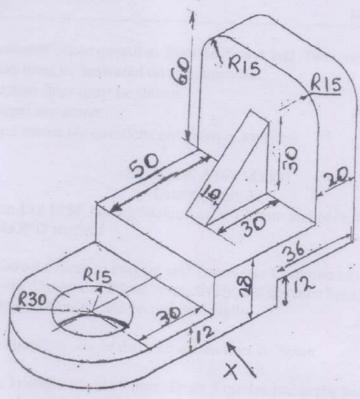
Figure(3)

p.t.o

Q7. Refer **Figure** (4). Copy the Isometric Figure given below.

Do not Insert any dimensions.

(26)



Figure(4)