

GREENLAWNS HIGH SCHOOL
TERMINAL EXAMINATION YEAR 2024-25
TECHNICAL DRAWING APPLICATIONS

CLASS : IX

TIME : 3 HOURS

MARKS : 100

Instructions:

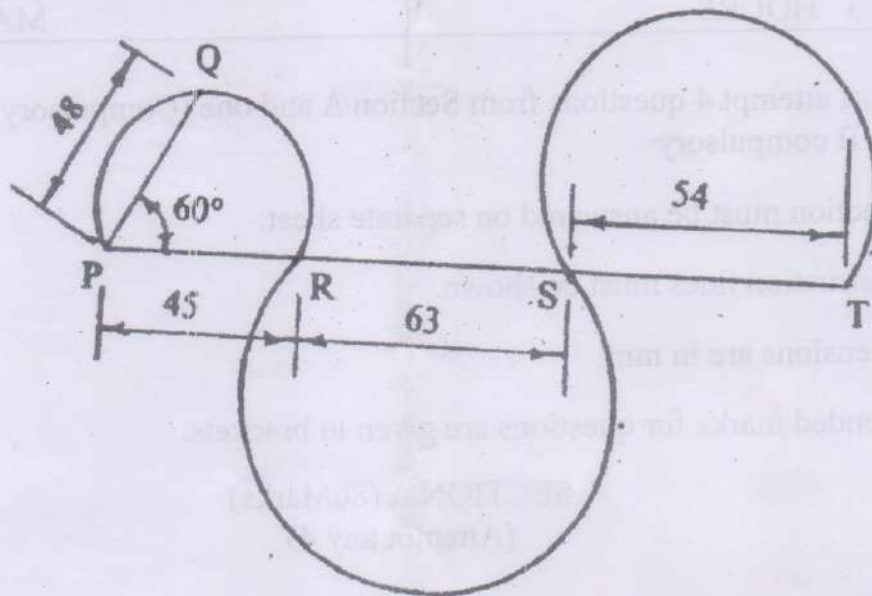
- You must attempt 4 questions from Section A and one (Compulsory) question from Section B compulsory
- Each Section must be answered on separate sheet.
- All construction lines must be shown.
- All dimensions are in mm.
- The intended marks for questions are given in brackets.

SECTION A (80Marks)
(Attempt any 4)

- Q.1a) Construct a pentagon inside a Circle of radii 55mm. Mention the side of the Pentagon. (Use proper construction) (10)
- b) Draw a Triangle of side 85mm. Draw three circles inside the square such that each circle touches two sides of the triangle and two other circles. (10)
- Q.2 a) Draw Three Circles inside a Hexagon of side 60mm, such that each circle touches One side of the Hexagon and two other circles. (12)
- b) Construct a Triangle PQR of Perimeter 210mm and sides PQ:QR:RP are in the ratio of 3:5:4. Take the largest side as the base. Write down the measurements of sides PQ, QR, RP. (8)
- Q.3a) Construct a Transverse Common Tangent to two circles of radii 40mm each and distance between their centres 115mm. Measure and record its length. (10)
- b) Draw an Equilateral Triangle ABC of side 40mm. Construct
- i. On side AB – Square
 - ii. On side BC – A regular Pentagon
 - iii. On side CA – A regular Hexagon
- Q.4 a) Draw 5 circles outside a pentagon of side 35mm. (14)
- b) Construct an Octagon whose distance across flats is 85mm. Mention the side of the Octagon (6)

Q.5 a) Draw a smooth curve passing through points A,B,C,D,E
As shown in Figure(1) below:

(12)



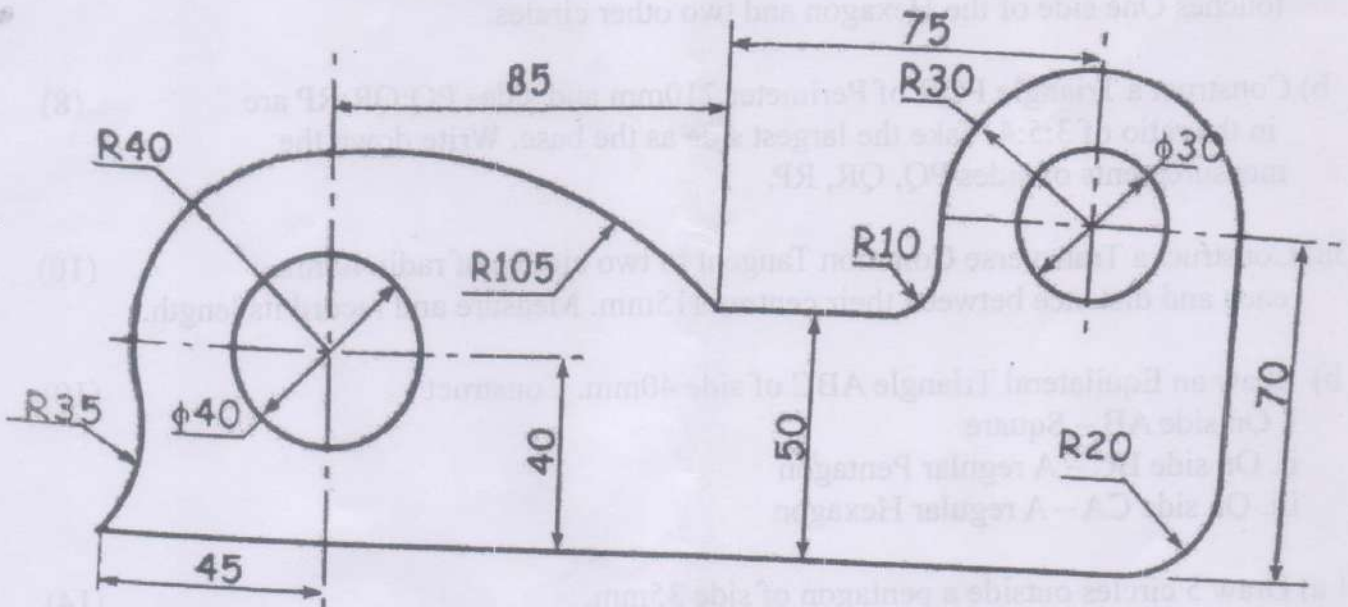
b) Find the Circumference of a circle of radii 28mm.. Measure and record it's length.

(8)

SECTION B (20 Marks)
(Q6 compulsory)

Q.6 Refer **Figure (2)**. Copy the given figure. Insert any six dimensions.

(20)



Figure(2)