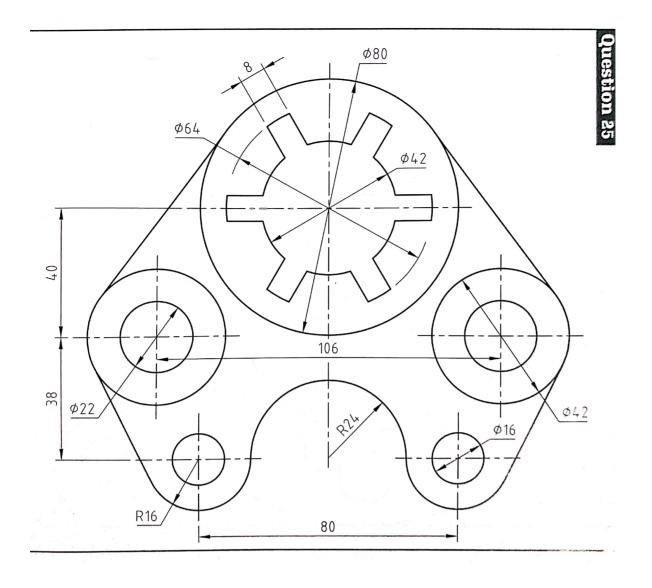
GREENLAWNS HIGH SCHOOL TERMINAL EXAMINATION YEAR 2020 TECHNICAL DRAWING APPLICATIONS

CLASS: IX

TIME: 2.5 HOURS MARKS: 60

Instructions:

- 1. Students must read the question carefully.
- 2. Solve the paper on loose sheets of paper
- 3. Write your name Std Roll No. on each sheet
- Click a picture and upload the images to classroom as a pd f.
 Name your pdf as roll no.,name,std div e.g 15 Gunjan Bharwani
 9A.
- 5. Turn in the assessment once you are done.
- 6. Question no. 1 is compulsory
- 7. Attempt any 3 questions from the other four
- Q.1 Refer Figure below. Copy the given figure. Insert any six dimensions. (15)



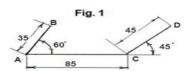
(ATTEMPT ANY 3)

Q.2 a. Refer Figure (2) below. Draw a smooth curve passing through (9) Points A,B,C and D

(b) Draw a circle of diameter = 42 mm. Divide it into 12 equal parts and find the circumference of this circle by geometrical construction. [6]

Question 2.

Copy the figure 1 given below. Draw a continuous arc passing through points A, B, C, and D in order. **[10]**



- Q.2b. Construct a pentagon of side 45 mm . show all construction (6)
- Q.3 a. Inscribe an octagon inside a square of side 80mm. (6)

Measure the side of the octagon.

- Q.3 b. Draw direct common tangents two circles of radii 35mm (9)
 And 45 mm and distance between their centers is 90mm.
 Measure and record its length.
- Q.4 Draw a hexagon of side 65mm. Inscribe six circles inside the (15) Hexagon such that each circle touches two side of the hexagon And two other circles.
- Q.5 Draw a circle of radii 55mm. Inscribe Five circles inside the (15) Circle such that each circle touches the larger circle and two Other circles.