

GREENLAWNS HIGH SCHOOL
FINAL EXAMINATION YEAR 2019 - 2020

SUBJECT : 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.1 Refer **Figure (1)**. Copy the given figure . Insert any six dimensions. (16)

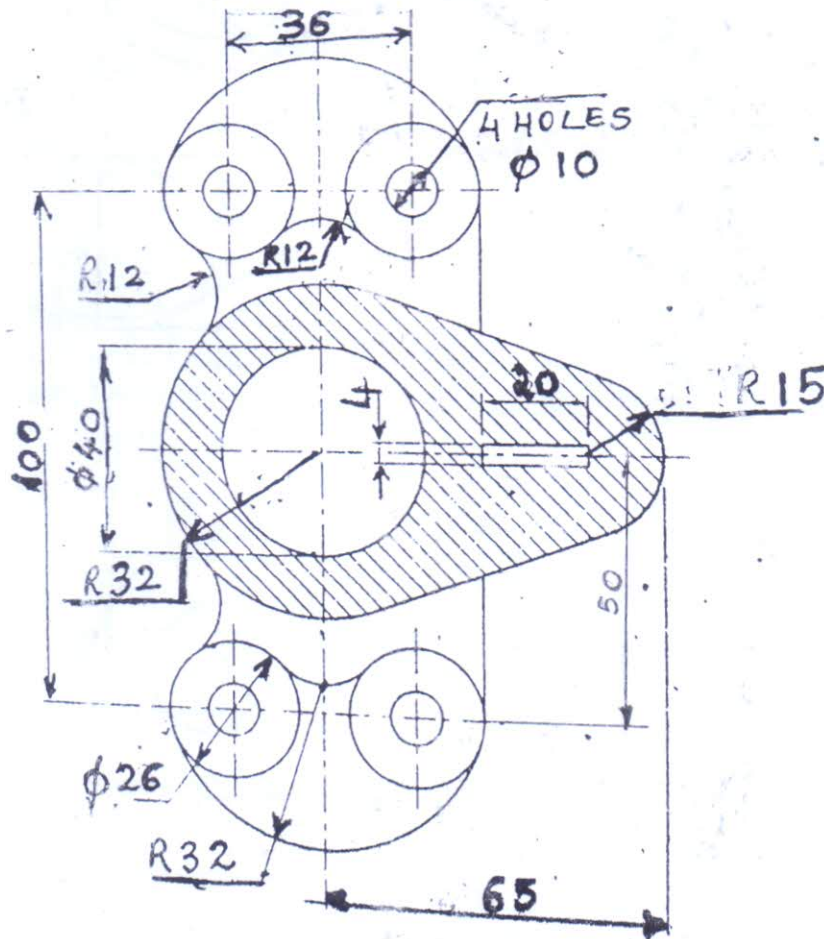


FIGURE 1

Q.2 Construct a Plain Scale long enough to measure length of 5 metre. 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 metre using Three circle method.

- Q.3a) Construct an ELLIPSE by CONCENTRIC CIRCLES METHOD (10)
Given Major Axis = 125mm, Minor Axis = 50mm.
- b) Draw a square of side 60mm . Draw four circles inside the square such that each circle touches two sides of the square and two other circles. (6)
- Q.4a) Construct a PARABOLA using OBLONG METHOD (10)
Given Base length = 125mm and Axis height = 65mm
- b) Construct a Direct Common Tangent to two circles of radii 45mm and 30mm each and distance between their centres 115mm. Measure and record its length. (6)
- Q.5 Refer to **Figure 2** given below. It shows F,V, and the T.V. of an object in the THIRD ANGLE METHOD of projection. Draw the OBLIQUE VIEW when the Receding Axis is inclined at 45° to the horizontal. (16)
(Do not insert any dimensions)

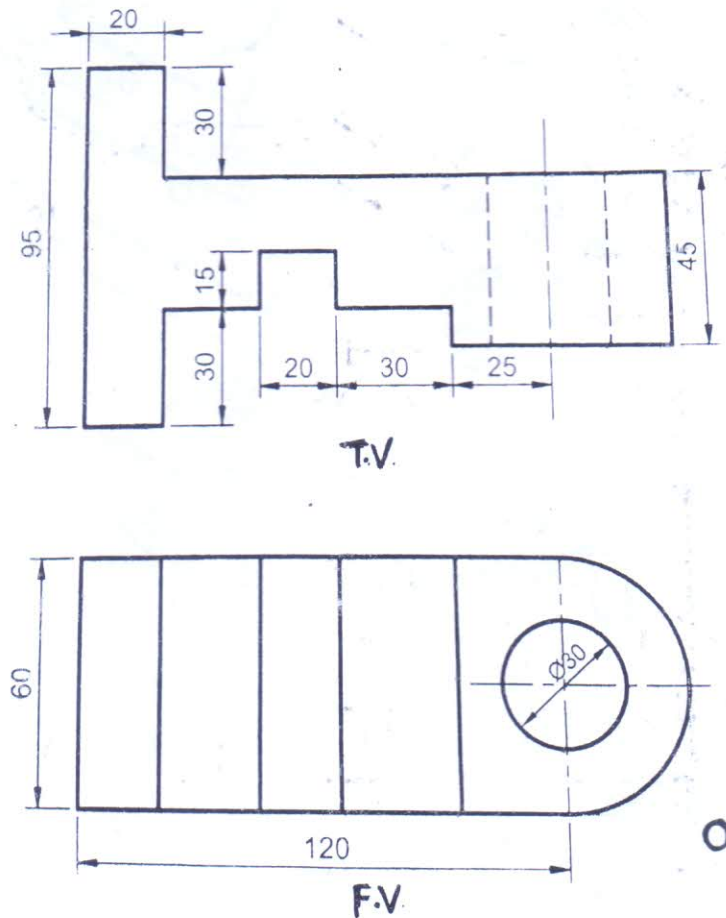


FIGURE 2.

Q.8 Refer **Figure (5)**. It shows the pictorial view of an object. Copy the given figure.
(Do not insert any dimensions).

(26)

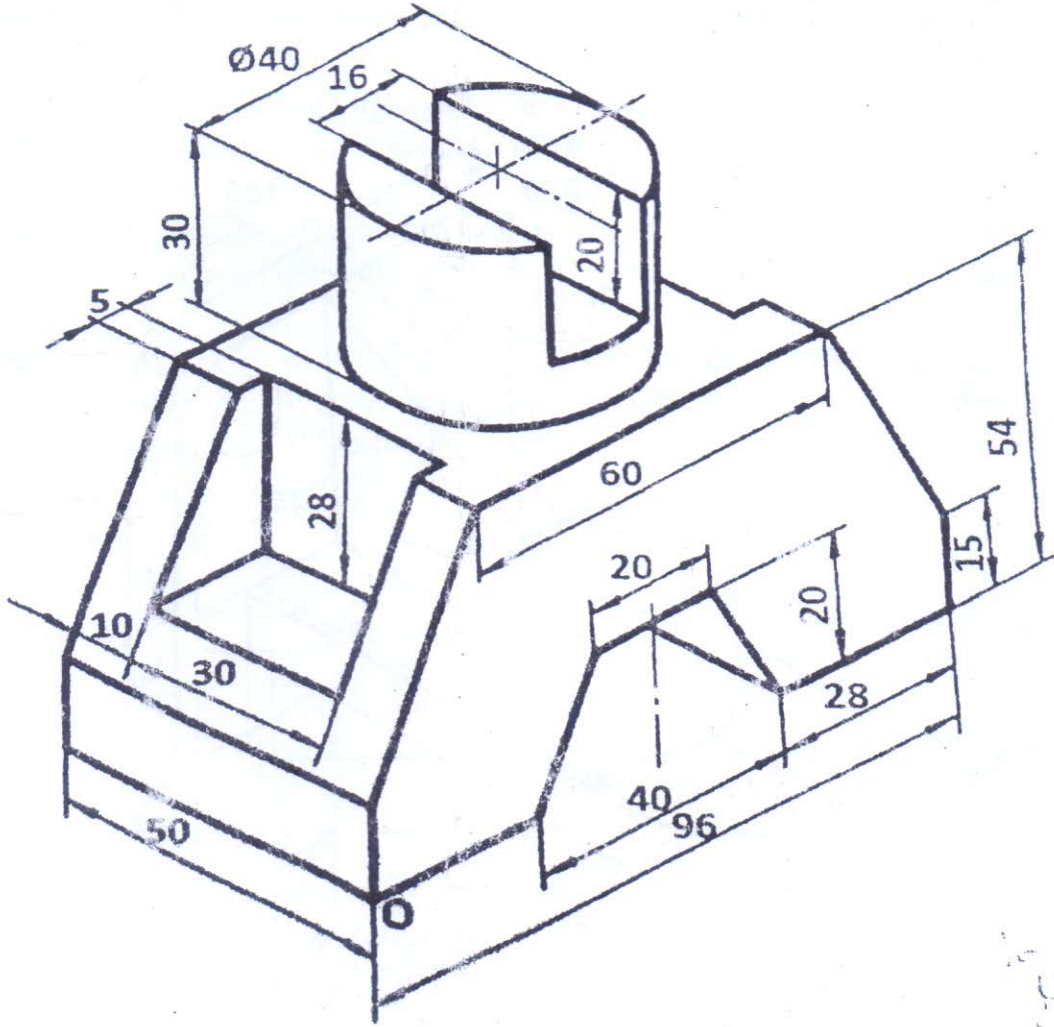


FIGURE 5.