GREENLAWNS HIGH SCHOOL
PRE-PRELIMINARY EXAMINATION YEAR 2020-21
TECHNICAL DRAWING APPLICATIONS

CLASS : X
TIME: 2.5HOURS MARKS: 80 marks

Instructions:

1. Students must read the question carefully.
2. Solve the paper on loose sheets of paper
3. Write your name ON EACH SHEET
4. Click a picture and upload the images to classroom as a pdf.
   Name your pdf as roll no.,name,std div e.g 15 Gunjan Bharwani 10A.
5. All construction lines must be shown

Section A

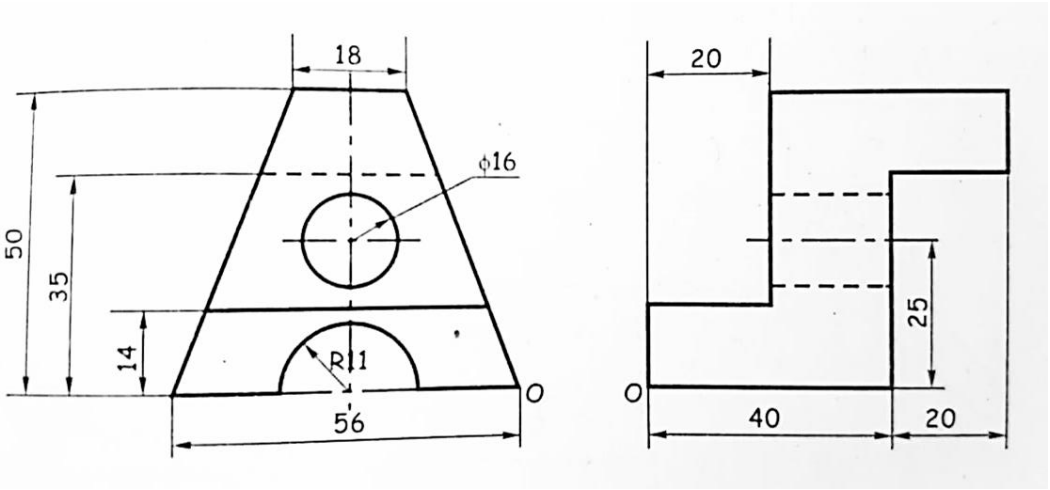
Attempt any 3

Q.1 Construct a Plain Scale long enough to measure 2.1 decimeter . (12)
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.

Q.2a). Draw Elevation, Plan and Development of a cone of base radii 30mm and axis height 75mm. Use third angle method of projection. Divide the circle into 12 parts. (8)

b). Construct a triangle equal in area to the pentagon of side 45mm. (4)

Q.3 Refer Figure (1). It shows two views of an Object. Draw the Oblique View of the object. Use Receding Angle of 45(1) (12)



p.t.o

Q.4 Refer Figure (2). Copy the given figure. Insert any 6 important Dimensions (12)

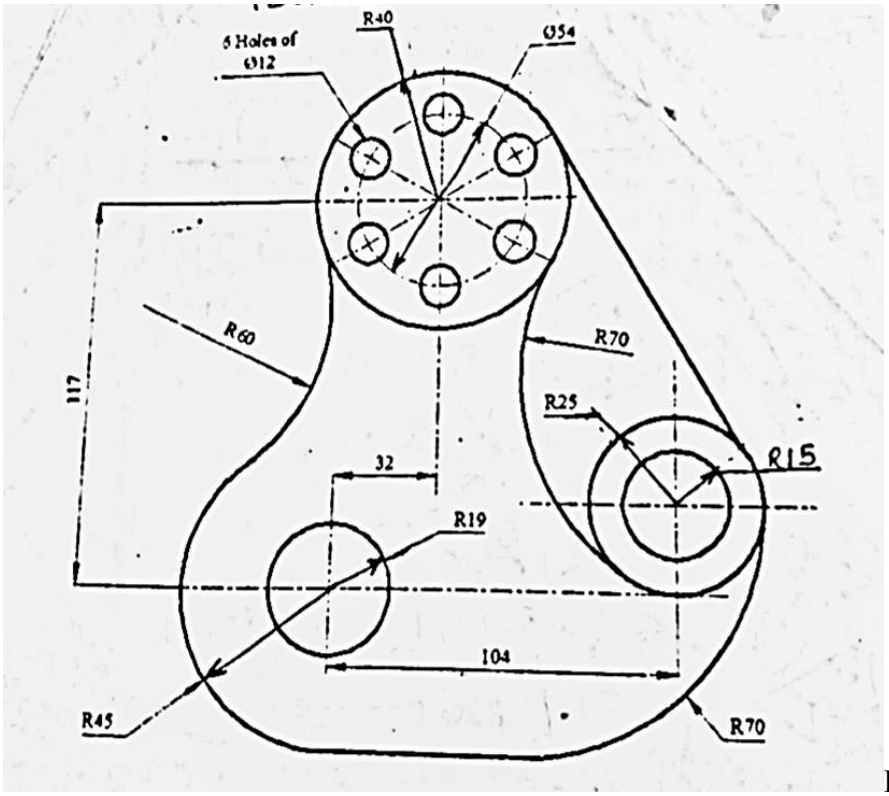


Figure (2)

SECTION B

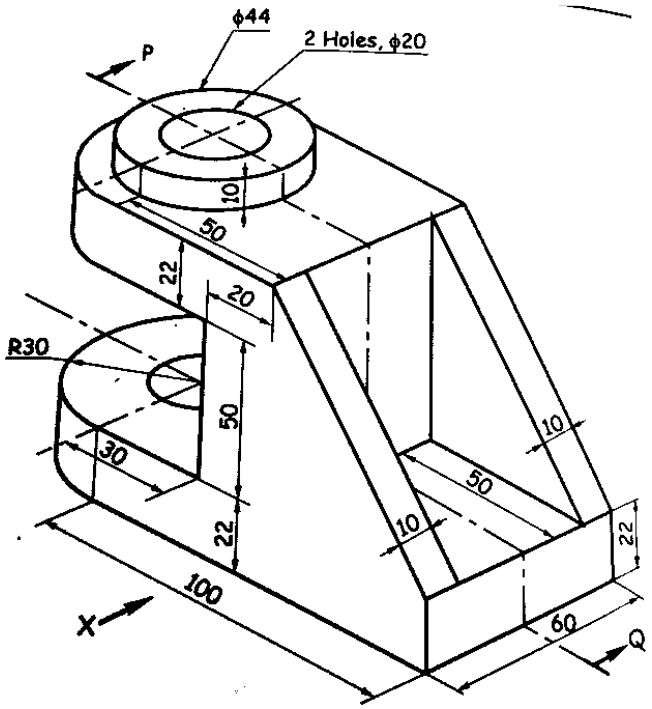
Attempt any 2

Q.5 Refer **figure (3)**.It shows pictorial view of an object . Draw using First Angle method of Projection. (22)

i) Sectional Front View along PQ

ii) Top View

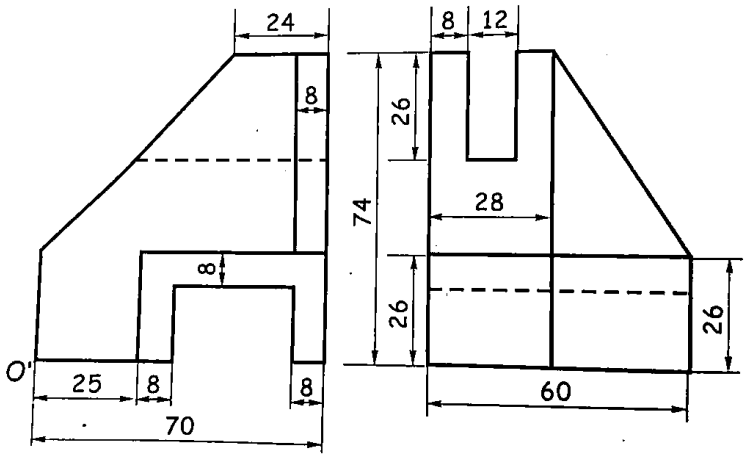
iii) Right Hand Side View



Figure(3)

p.t.o

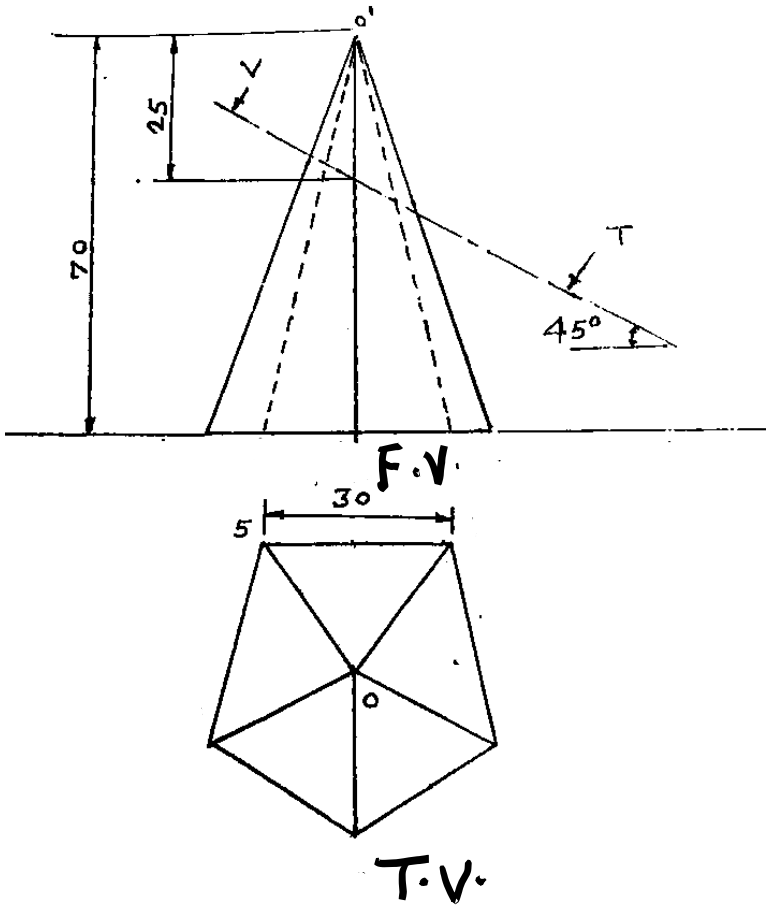
Q.6 Refer Figure (4) Below: It shows two views of an object . Draw the Isometric View. (22)



Figure(4)

Q.7 Figure No .(5) below shows a pentagonal pyramid resting on its base On H.P. with one side of the base parallel to V.P. It is cut by a cutting Plane inclined at 45° to H.P. as shown in the figure. (22)

Draw a) Front View b) Sectional Top view c)Sectional R.H.S.V
c) True Shape of Section d) Development of the retained portion.



Figure(5)