

The cathedral of John Cannan High School.

Prelium Examination, 2009

Theescampapers.com

Std. X

TECHNICAL DRAWING

(Three hours)

(Standard Instructions for all Question papers)

You must answer 3 questions from Section A & two questions from Section B.

Section A [42 Marks]

Answer any three questions in this Section.

Question 1

Construct a diagonal scale to read meters, decimeters and centimeters for a R.F. of 1/50 and long enough to measure up to 7 meters. Show on it a length of (a) 2.89 meters, (b) 5.76 meters (c) 6.04 meters.

[14]

Question 2

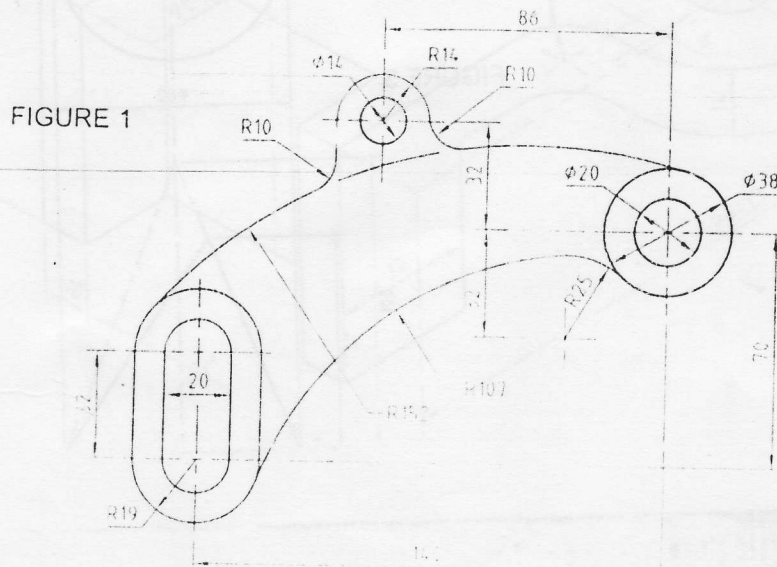
Construct a regular hexagon of side 50 mm. Inscribe in the hexagon, six circles of equal diameter, each circle touching two adjacent sides of the Hexagon and two of the other circles.

[14]

Question 3

Figure 1 shows one view of a shift lever. Copy the figure, showing clearly all the construction details and how the centers of radii have been established.

[14]



Question 4

Figure 2 shows two views of an adjuster block in the third angle of projection. Make a full size isometric drawing of the object, positioning the isometric in such a way that the side view can be viewed from the right hand side. [14]

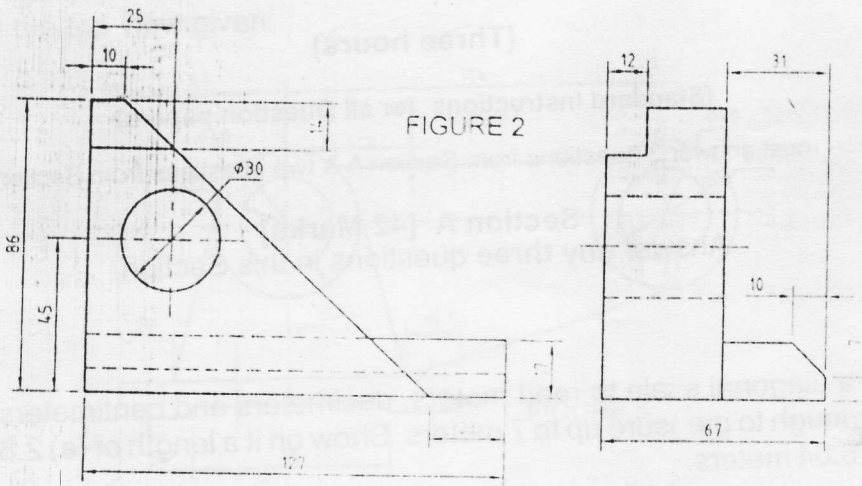


FIGURE 2

Question 5

Figure 3 shows the front view and an incomplete top view of a truncated right circular cone

- (a) Copy the given views.
- (b) Complete the top view.
- (c) Draw the true shape of the top slant surface.
- (d) Develop the figure.

[2]
[4]
[3]
[5]

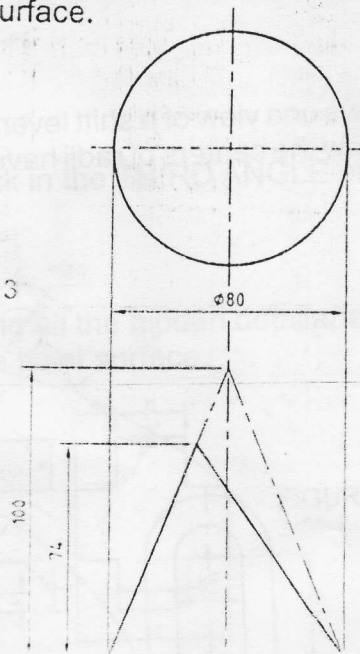


FIGURE 3

SECTION B (38 Marks)

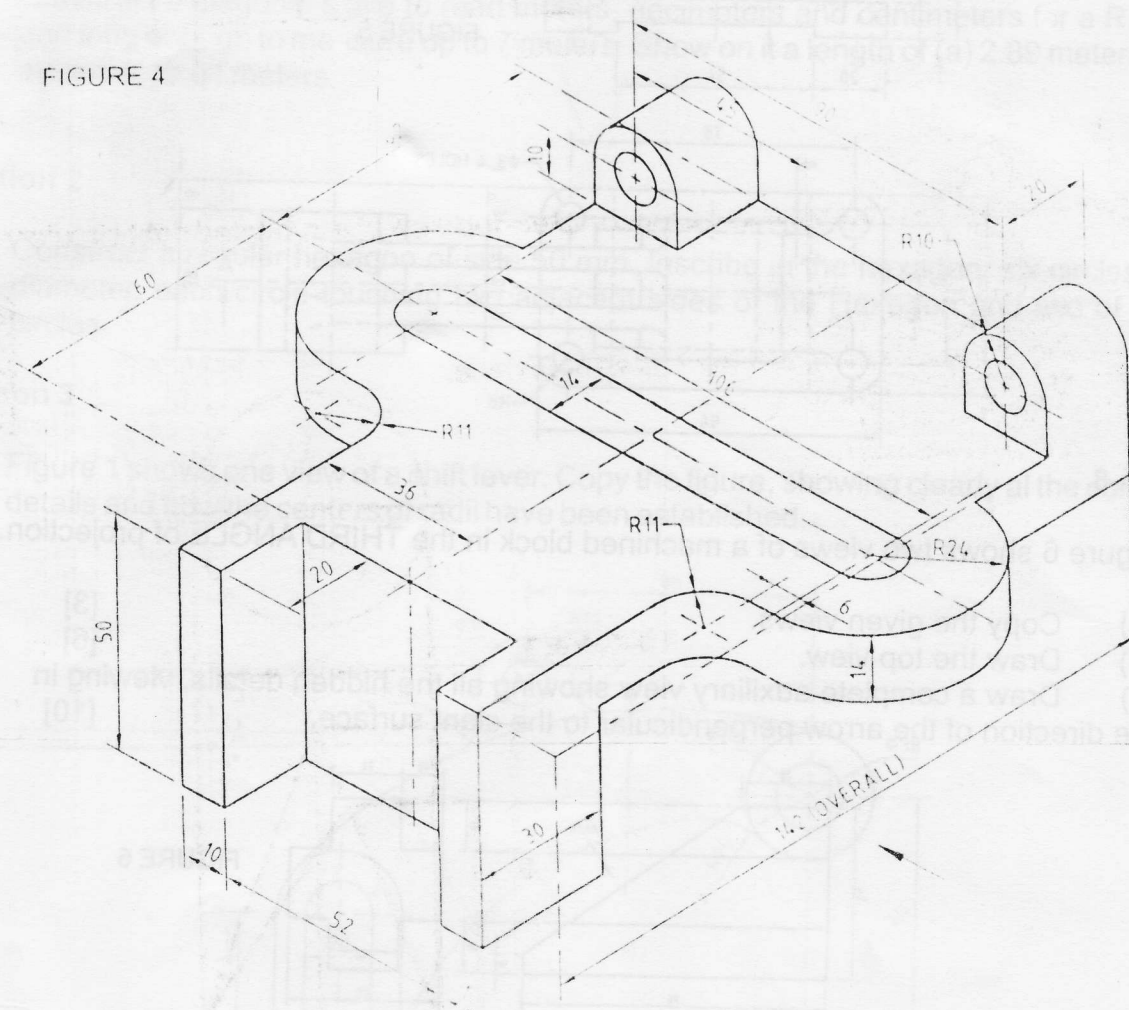
Answer any two questions in this Section

Question 6

Figure 4 is an isometric drawing of a tension bracket. Draw a full scale and in FIRST ANGLE of projection.

- (a) A front view (elevation) looking in the direction of the arrow. [7]
- (b) Side view (end elevation) from the left [6]
- (c) The top view (plan) [6]

FIGURE 4



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