

ENGINEERING DRAWING-I

1st Exam/Civil/Electrical/Comp/CSc/Aerospace/2655/0551/Nov'16

Duration: 3 Hrs

M. Marks: 100

SECTION A

Q.1 Fill in the blanks.

10x1.5=15

- i) The drawing which is prepared without using any drawing instruments is.....
- ii) The longest diameter of an ellipse is called.....axis.
- iii) In inclined lettering, a slope of an angle to the horizontal.
- iv) The top view of an object is always projected on plane.
- v) In lettering size of letter is described by their.....
- vi) The length of arrowhead should betimes to its maximum width.
- vii) 15 times full size scale is indicated as.....
- viii) The angle between isometric axis is
- ix) Isometric view of a circle is
- x) The purpose of sectioning is to show thedetails of an object.

SECTION B

Q.2 Attempt any five questions.

5x7 =35

- i) Draw the convention representation of following lines –
Dotted line, Short break lines, Hidden line, Dimension Line, Cutting plane line..
- ii) Show with sketches size dimensioning and location dimensioning..
- iii) Differentiate first angle and third angle projections.
- iv) What is difference between full and half section?
- v) Write in freehand vertical lettering the following sentence taking size 12mm
"GOD HELPS THOSE WHO HELP THEMSELVES".
- vi) Explain difference between isometric view and isometric projection.

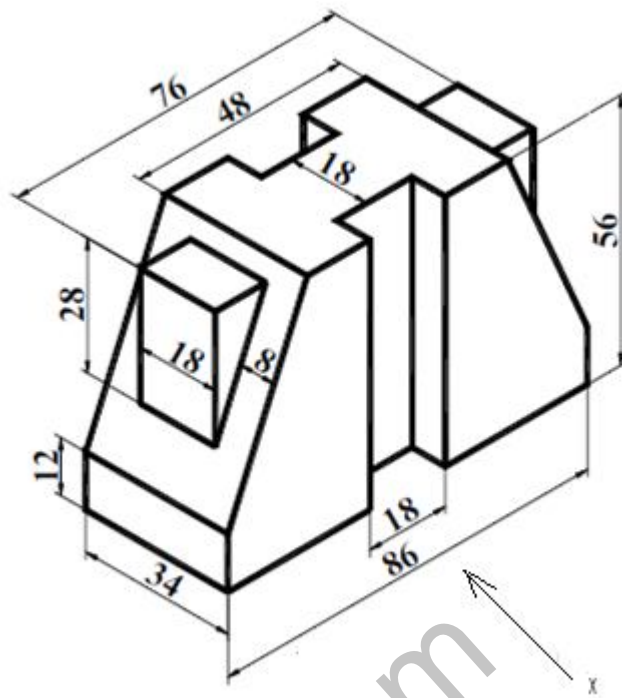
SECTION C

Q.3 Attempt any two questions.

2x25 =50

- i) A right circular cone of base diameter 30 mm and height 40 mm rests centrally on a square block of 80 mm sides and 40 mm thickness. Draw isometric view of the solid.
- ii) Draw a diagonal scale to show meters, decimeters, and centimeters and long enough to measure upto 6 meters when 1 meter is represented by 2.5 cm. Find its RF and represent 4.65 meters on it.
- iii) Figure 1 shows pictorial view of an object. Draw to a full size scale, the following views in third angle projection.
 - 1. Front View looking in the direction of arrowhead X
 - 2. Top View Outside.
 - 3. Left side View.

PTO (Figure overleaf)



(Figure 1)