S.B.Roll No. _____

# ENGINEERING DRAWING-I

1st Exam/Civil/Comp/Elect/Minor trades/2655/Dec-2011

Duration: 3 Hrs.                                                                     Max. Marks: 100

Note :   Attempt any five questions.

## Section-A

Q1 (a) Show five different types of lines used in engineering drawing giving their purpose.          10

(b) Print the following sentence in upper case, single stroke, and vertical letters in the ratio of 7:4. Take height of letters=12mm

"TRUTH IS GOD"                                                                          10

Q2 (a) With neat sketches, show how the following are dimensioned: Circles, holes chamfered surfaces, angles, curves.                                                                         10

(b) Sketch the following systems of placing dimensions: (i) Aligned system (ii) Unidirectional system                                                                          10

Q3.      Construct a diagonal scale to read up to 1/10 of a mm, long enough to read up to 60mm, taking R.F=3/1. Show a distance of 47.8mm on this scale.                                      20

Q4       Pictorial view of an object is shown in fig.1. Draw its front view, top view and side view.      20

Q5 (a) Draw projections of the following points:                                               10
        (i)   Point A, 50mm in front of VP and 30mm above HP.
        (ii)  Point B, 40mm behind VP and 20mm below HP.

(b) A line AB, 35mm long is perpendicular to HP. Its end B is 15mm from HP and 20mm from VP. If the whole line lies in third quadrant, draw its projections. The line is parallel to VP      10

Q6       Show the following types of sections:                                                  20

        Half section, Partial or broken art Section, offset section, revolved section, removed section.

Q7       A right circular cone of 30mm base diameter and 40mm height rests centrally on a square block of 50mm sides and 20mm thickness. Draw isometric view of the assembly.               20

Q8 (a) Fig 2 shows front and top views of an object, draw its side view.                         10

(b) Three views of an object are shown in fig. 3 with some missing lines. Complete the views by inserting the missing lines.                                                           10
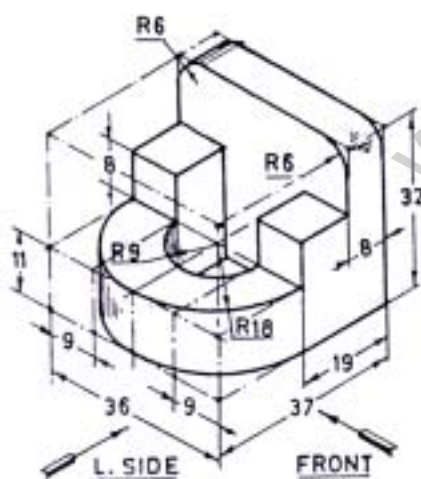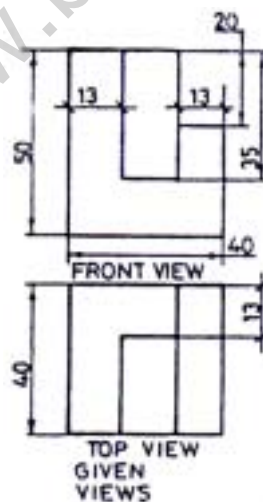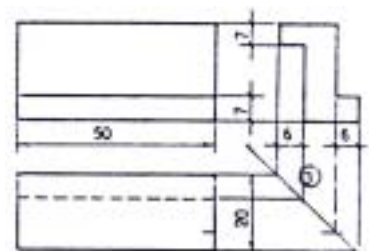


*Fig. 1*                              *Fig. 2*                              *Fig. 3*

S.B.Roll No. _____

## ENGINEERING DRAWING
1st Exam/Common/5405/0551/Dec-2011

Duration: 3 Hrs.                                                   Max. Marks: 100

Note :   All questions are compulsory.

### Section-A

Q1.     Fill in the blanks                                                         15
   1)    A drawing is a _____ of rear thing.
   2)    _____ is a drawing instrument
   3)    Scales are used to draw the figure in _____
   4)    A line representing the path of point called _____
   5)    _____ is a thin line with arrow heads at ends.
   6)    Thickness of arrow head = _____
   7)    Three strokes arrow head is also called _____
   8)    R.F means _____
   9)    A rectangular object has normally _____
   10)   In first angle projection object placed in _____
   11)   Isometric projection is a type of _____
   12)   The size of $A_2$ drawing sheet is _____
   13)   Scale 1:2 means _____
   14)   Angle of set square are _____
   15)   _____ method is generally used for drawing isometric projection of these objects in which non isometric lines lie in isometric planes
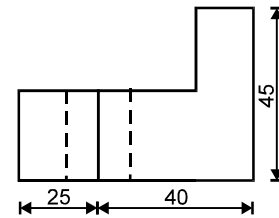

LH Side View
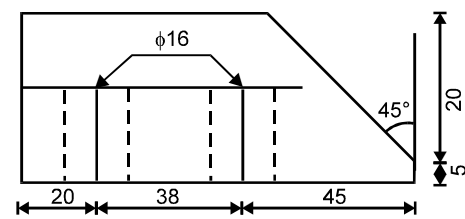

Front View
Fig (A)

### Section-B

Q2.     Attempt all questions
   1)    Give the abilities to write a letter correctly
   2)    What is single stroke lettering?
                   **OR**
         What are ascenders and decenders?
   3)    Differentiate between straight line lettering and curved letters.
                   **OR**
         Name different type of scales.
   4)    Give different step of construction of scale.
   5)    What do you mean by Isometric Projection?
   6)    What do you mean by missing lines and missing views?
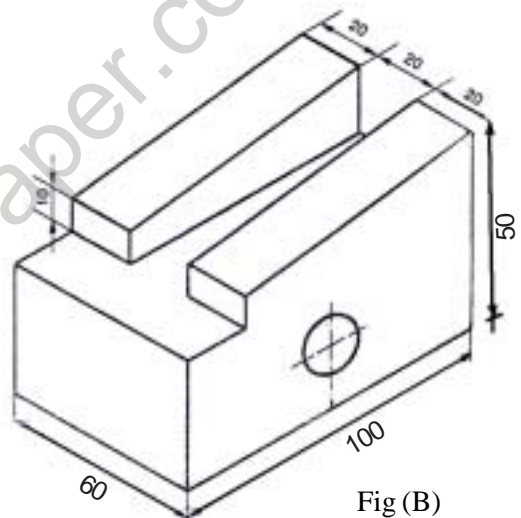

Fig (B)

### Section-C

Q3.     Attempt all questions          11×5=55
   1)    Construct a plain scale of RF = 1/250 to measure 0 to 40m. Measure a distance of 27m on the scale.
   2)    Write the following in single strike vertical capital letters 20mm high DRAWING IS THE ANGUAGE OF ENGINEERS.
   3)    Draw the isometric view of wedgs block shown in Fig (A).
   4)    Draw the Orthographic Projection of BLOCK given in fig (B).
   5)    Fig (C) shows the front side views of an object. Draw the following in scale 1:1. Draw the top view of an object. Draw the top view and mark the dimensions fully.
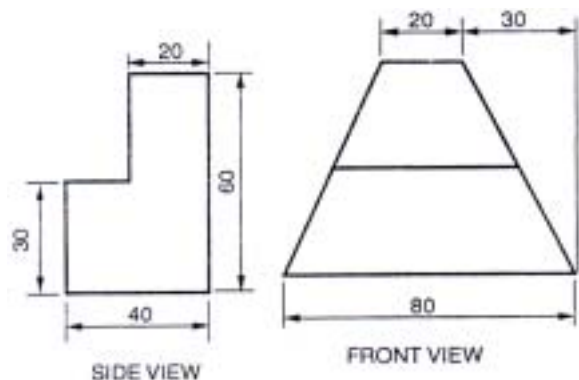

SIDE VIEW      FRONT VIEW
Fig (C)