B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

December, 2017

BAS-005 : ENGINEERING DRAWING

Time : 3 hours   *Maximum Marks : 70*

Note : (i) *Attempt any five questions.*
        (ii) *All questions carry equal marks.*

1. A line AB, 75 mm long has one of its ends 50 mm   14
    in front of V.P. and 15 mm above H.P. The top
    view of the line is 50 mm long. The other end is
    15 mm in front of V.P. and is above H.P. Draw
    the views and determine the true inclinations.

2. A sphere of 60 mm diameter is placed centrally   14
    on the top of a frustrum of square pyramid. The
    base of the frustrum is 60 mm square and top is
    40 mm square. Its height is 50 mm. Draw the
    isometric projection of the arrangement.

3. A cylinder of 45 mm diameter and 62 mm height   14
    and having its axis vertical is cut by a section plane
    perpendicular to V.P. and inclined at 45° to H.P.
    and intersecting the axis 32 mm above the base.
    Draw its front view, sectional top view and true
    shape of the section.

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4. The focii of an ellipse are 90 mm apart and minor **14** axis is 65 mm. Draw the Ellipse.

5. Draw Elevation, plan and side view in First Angle **14** projection for Figure 1.
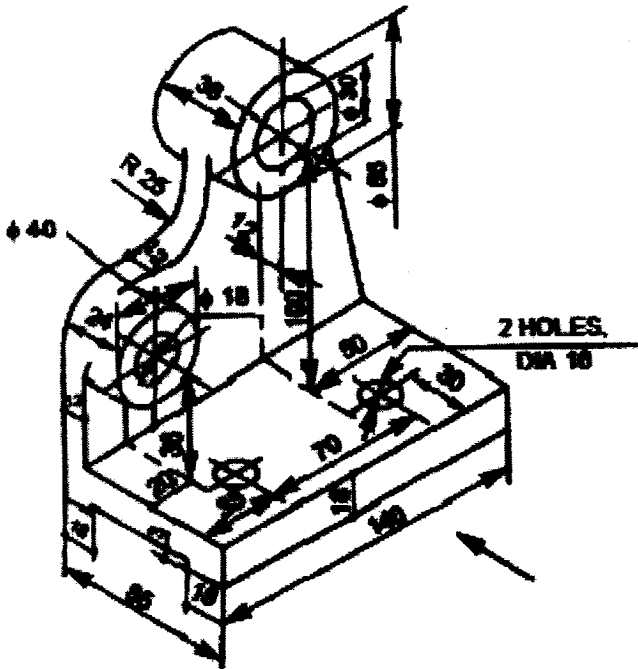

Figure 1.

6. (a) Sketch the following locking **6** arrangements :
   (i) Split Pin
   (ii) Castle Nut
   (iii) Spring Washer

   (b) Sketch any two types of thread profile. **8**