**BAS-005**

# B.Tech. (AEROSPACE ENGINEERING)
# (BTAE)

00685 **Term-End Examination**

## December, 2014

### BAS-005 : ENGINEERING DRAWING

*Time : 3 hours*       *Maximum Marks : 70*

*Note :* *Solve any **five** questions. Figures to the right indicate marks. All dimensions are in mm.*

1. The focii of an ellipse are 92 mm apart and minor axis is 66 mm. Draw the Ellipse.   *14*

2. A circle of 40 mm diameter rolls from outside another circle of 60 mm radius. Draw Epicycloid.   *14*

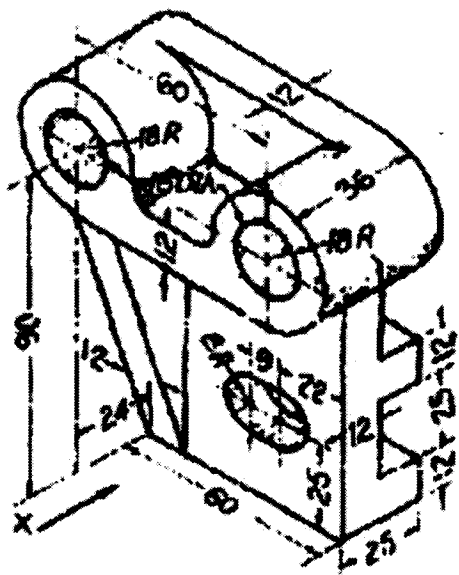**3.** Figure 1 shows pictorial view of block. Draw Elevation and Plan by First Angle Method. *14*



*Figure 1*

**4.** Figure 2 shows Elevation and End view of the object. Draw Isometric view. *14*



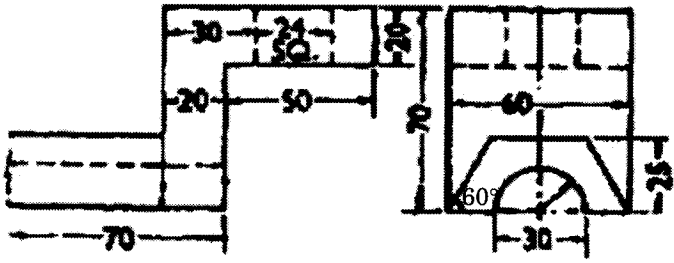*Figure 2*

**5.** (a) Sketch the following locking arrangements :

(i) Castle Nut

(ii) Spring Washer

(iii) Split Pin

(b) Sketch any three types of thread profiles. *6+8*

**6.** (a) Sketch a simple Bush Bearing

(b) Sketch split muff coupling (Two views). *7+7*

**7.** A circular plane of 60 mm diameter rests on Vertical Plane (V.P.) on a point A on its circumference. Its plane is inclined at 45° to V.P. Draw the projections of the plane when

(a) the front view of the diameter AB makes 30° with Horizontal Plane (H.P.), and

(b) the diameter AB itself makes 30° with Horizontal Plane (H.P.) *14*

**8.** A cone of 55 mm diameter and 65 mm height is cut by a section plane such that the plane passes through the mid-point of the axis and tangential to the base circle. Draw the development of the lateral surface of the bottom part of the cone. *14*

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