

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

Term-End Examination

00323

June, 2018

BAS-005 : ENGINEERING DRAWING

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

1. A square prism, with edge of base 25 mm and axis 45 mm long has its axis inclined at 45° to the H.P. and an edge of its base on which the prism rests is inclined at 30° to the V.P. Draw its projections.

14

2. A square pyramid with side of the base 30 mm and axis 50 mm long is resting on its base parallel to V.P. It is cut by a section plane perpendicular to V.P. and is inclined at 45° to H.P. The section plane is passing through the mid point of the axis. Draw the development of the surface of the pyramid.

14

3. A circle of 45 mm diameter rolls on outside another circle of 65 mm radius. Draw the epicycloid. 14
4. The top view of a 75 mm long line PQ measures 65 mm, while its length in front view is 50 mm. One end P of line PQ is 15 mm above H.P. and 15 mm in front of V.P. Draw the projections of line PQ and determine its inclination with H.P. and V.P. 14
5. Draw Elevation, Plan and Side view for the object shown in Figure 1. 14

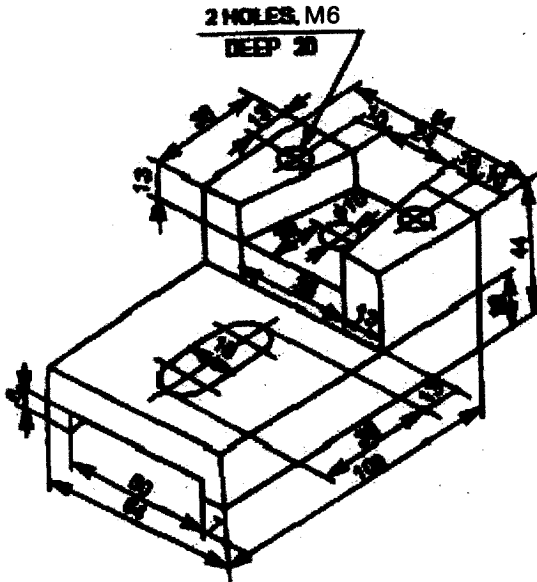


Figure 1

6. (a) Draw Square, Acme and Buttress threads showing major diameter, core diameter and pitch. Major dia = 65 mm, core dia = 55 mm and pitch = 10 mm.
- (b) Draw the Elevation of a Hexagonal nut. Assume the dimensions suitably. 7+7
