00352

B.TECH. (AEROSPACE ENGINEERING) (BTAE/BTCLEVI/BTMEVI/BTELVI/BTECVI/ BTCSVI)

Term-End Examination

December, 2011

BAS-005 : ENGINEERING DRAWING

Time : 3 hours   *Maximum Marks : 70*

Note :   *Question 1 is compulsory. Solve any four questions from Q. 2 to Q. 8.*

1.   Fig. 1 shows cap of a journal bearing. Draw three   **22**
      views
      (a)   Elevation
      (b)   Plan
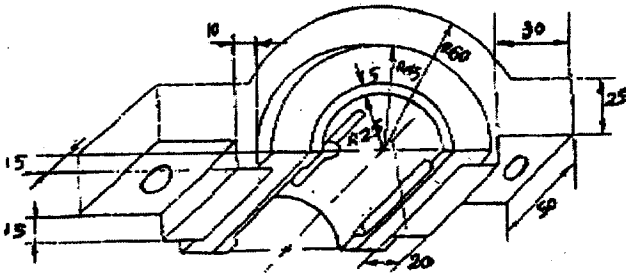   (c)   Sideview (sectioned)

Fig. 1

OR

Draw : 22

(a) Elevation
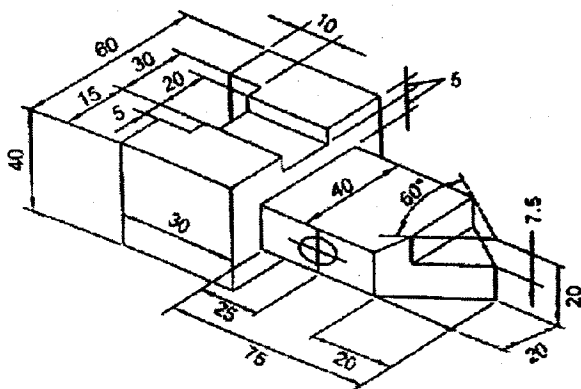
(b) Plan

(c) Side view

for part in Fig. 2.

Fig. 2

2. With one side of 2.5 cm draw a regular heptagon. **12**

3. Draw a regular hexagon about a circle of diameter **12** 40 mm with two of its sides vertical. Draw an other regular hexagon about circle of 40 mm diameter with sides making 30° angle with sides of first hexagon.

4. Draw an ellipse for which focus is 40 mm from   **12**
   directrix and eccentricity is 2/3.

5. A hexagonal pyramid, 25 mm side of base has   **12**
   axis 50 mm long. One edge of the base is on the
   ground and axis is inclined at 30° to the ground
   and parallel to V.P. Draw its projections.
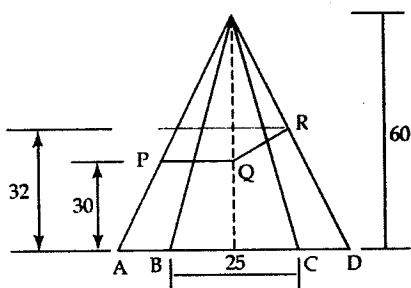
6.   **12**

Fig. 3

A hexagonal pyramid with base ABCD is cut by
planes PQ and QR. Draw the development of
lateral surface of PQRDCBA. (Fig. 3)

7. A vertical cone having base diameter of 70 mm   **12**
   and axis 80 mm penetrates into a cylinder of
   diameter 45 mm such that the axes of cone and
   cylinder are parallel and at distance of 10 mm,
   and both axes are in V.P. Draw the projections
   showing curves of intersection.

8. In free hand draw the isometric view of the object **12** for which elevation and top view are shown in Fig. 4.
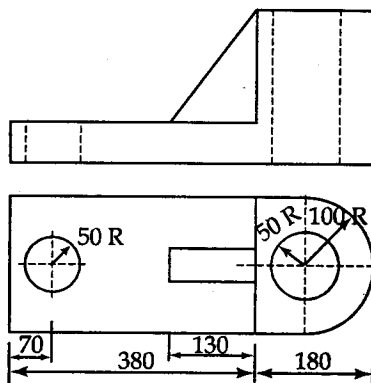

Fig .4