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BAS-005

B.TECH. IN AEROSPACE ENGINEERING (BTAE)

Term-End Examination

June, 2010

BAS-005 : ENGINEERING DRAWING

Time : 3 hours

Maximum Marks : 70

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

 The major axis is 120 mm. and minor axis is 80 14 mm. Draw the Ellipse. Find foci for the Ellipse.

OR

Draw the parabola in a rectangle having base 70 mm and height 90 mm.

A circle of 50 mm dia. rolls on another circle of 14 175 mm dia from inside and outside. Draw the locus of point P on the circumference of the rolling circle for one complete revolution.

OR

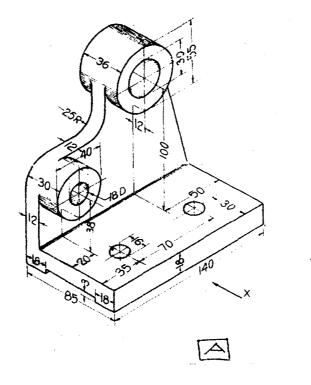
Draw an Archemedian spiral for $1\frac{1}{2}$

convolutions. Take shortest radius as 15 mm and largest radius as 60 mm.

1

14

4. Fig. A shows a Bracket. Draw Elevation and plan 14by First Angle method.



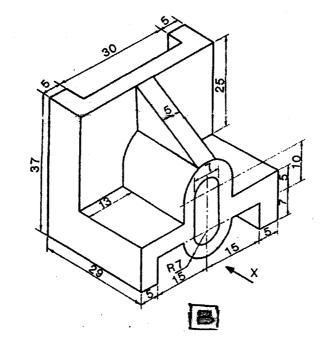
(All dimensions are in mm)

OR

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2

Fig. B shows a Bracket. Draw Front view and Top view by Third Angle Method.



6+8

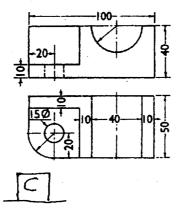
(All dimensions are in mm)

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3

Fig. C shows the orthographic projections of the 14 object. Draw the Isometric projection.



(All dimensions are in mm)

6. (a) Sketch the following thread profiles : 6+8

(i) ISO (Metric Thread)

(ii) BSW

(iii) Square Threads

(b) Sketch any three locking arrangements.

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P.T.O.

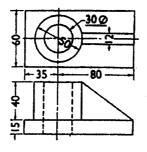
 Sketch double rivetted Lap Joint (chain type), 14 front view full in section and top view.

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- 8. (a) Sketch Ball and Roller Bearing 7+7
 - (b) Sketch Muff comphing (two views)

OR

Fig. D shows the orthographic projections of the object. Draw the Isometric view.



(Third-angle projection)

1

5

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(All dimensions are in mm)