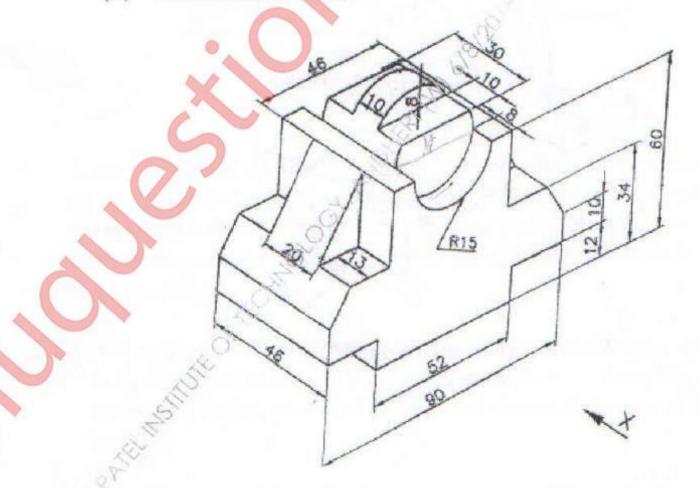
SEM-II F.E All Branches (CBSGS) Engineering Drawing 8/6/2016 Q.P. Code: 530405 (3 Hours) | Total Marks: 60

- N.B.: (1) Question No.1 is compulsory. Solve any Three out of remaining Five questions.
 - (2) Use your own judgment for any unspecified dimension.
 - (3) Use first angle method only.
 - (4) Retain all construction lines.
 - (5) Figures to the right indicate full marks.
- (a) A circle of 60mm diameter rolls on a straight line without slipping. Draw
 the locus of a point 'P' for complete revolution of the circle. The point
 'P' is 38mm above the straight line and towards the right of vertical centre
 line of the circle.
 - (b) Figure 1 shows pictorial view of an object. Draw:
 - (i) Front view

(ii) Top view

4

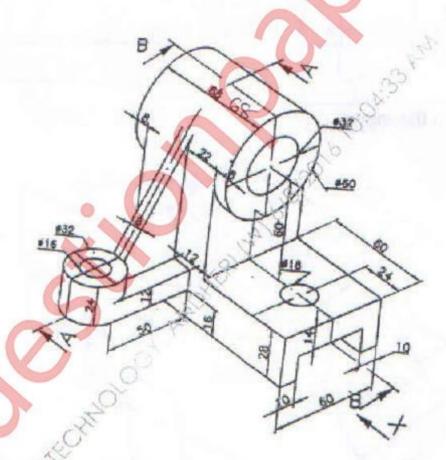
(iii) Dimension the views



All dimensions are in mm Figure no. 1

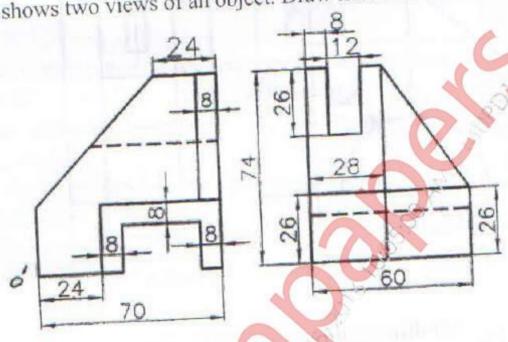
TURN OVER

- A pentagonal pyramid of 28mm. edge of base and 60 mm length of axis has a 28mm. edge on the H.P. The axis is inclined at 35° to H.P. and 45° to V.P. Draw the projections.
- 3. Figure 2 shows pictorial view of an object. Draw:
 - (i) Sectional Front View along A A.
 - (ii) Sectional Left hand side view along B B.
 - (iii) Top View
 Dimension the views (any four)



All dimensions are in mm Figure 2

- 4. (a) The distance between the end projectors of a line AB is 60mm. The end A is 25mm above H.P. and 45mm in front of V.P., while the other end B is 60mm above H.P. and 15mm in front of V.P. Draw projections and find the true length and also inclination of the line with H.P. and V.P.
 - (b) Figure 3 shows two views of an object. Draw isometric view of the object.



All dimensions are in mm Figure 3

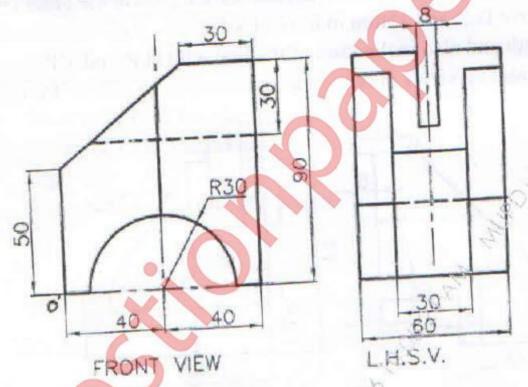
- A square pyramid of base side 25mm and altitude 50mm rests on its base 15 on the HP with two sides of the base parallel to VP. It is cut by a plane bisecting 5. the axis and inclined at 30° to the base. Draw front view, sectional top view and true shape of the section. Also draw the development of the lower part of the pyramid.
- 6. (a) A cylinder with 50mm diameter of its base and axis measuring 70mm has 6 its axis inclined at 30° to VP. Draw the projections of the cylinder when the solid is resting on one of the points of the circumference of the base on VP

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(b) Draw isometric projection using natural scale. Refer Figure No.4.



All dimensions are in mm
Figure 4

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