



		Marks	Mapping	
			CO (Course Outcome)	Cognitive Level (As per Revised Bloom's Taxonomy)
<b>Q.1</b>	Draw Isometric view of a given Figure.1. Give dimensions using aligned method.  <b>OR</b>	<b>5</b>	<b>CO1, CO2</b>	<b>A, N</b>
<b>Q.1</b>	Draw front view, and top view of Figure.2 using 3 <sup>rd</sup> angle projection method. Give dimensions using uni-directional method.	<b>5</b>	<b>CO1, CO2</b>	<b>A, N</b>
<b>Q.2</b>	In the crank connecting rod-trunnion mechanism as shown in Figure.3, crank OB is 400 mm long. Connecting link BA is 1800 mm long and trunnion C is located 1250 mm on the right of O and 150 mm below O. Draw the loci of points of A.  <b>OR</b>	<b>5</b>	<b>CO3</b>	<b>E, C</b>
<b>Q.2</b>	A Link OA, 80 mm long oscillates around O, 60° to right side and returns to its initial vertical Position with uniform velocity. Meanwhile point P initially on O starts sliding downwards and reaches end A with uniform velocity. Draw locus of point P	<b>5</b>	<b>CO3</b>	<b>E, C</b>
<b>Q.3</b>	A square plate PQRS of side 35 mm is resting on corner P with diagonal PR making 30° with H.P. and diagonal QS inclined to V.P. by 60° and parallel to H.P. Draw the projections of the square plate.  <b>OR</b>	<b>5</b>	<b>CO4, CO5</b>	<b>R, U</b>
<b>Q.3</b>	A hexagonal plane of 30 mm side has one of its sides on the H.P and inclined at 45° to the V.P. The surface of the plane is inclined at 45° to H.P. Draw its projections.	<b>5</b>	<b>CO4, CO5</b>	<b>R, U</b>

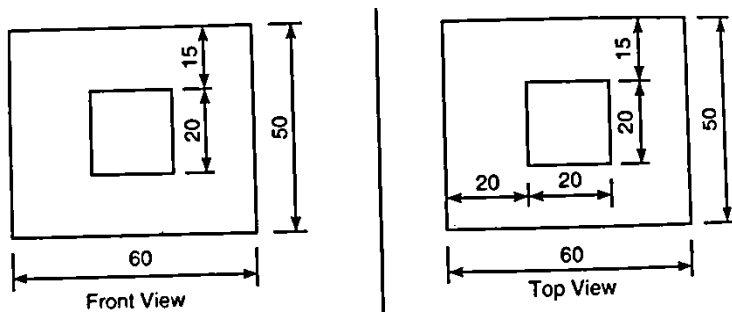


Figure.1

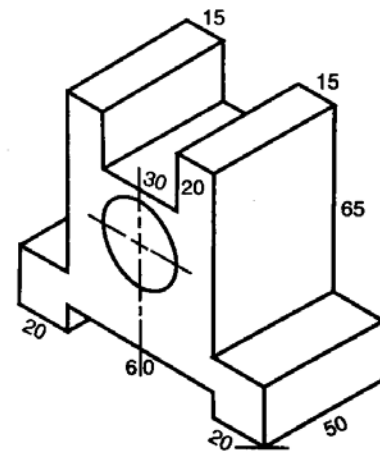


Figure.2

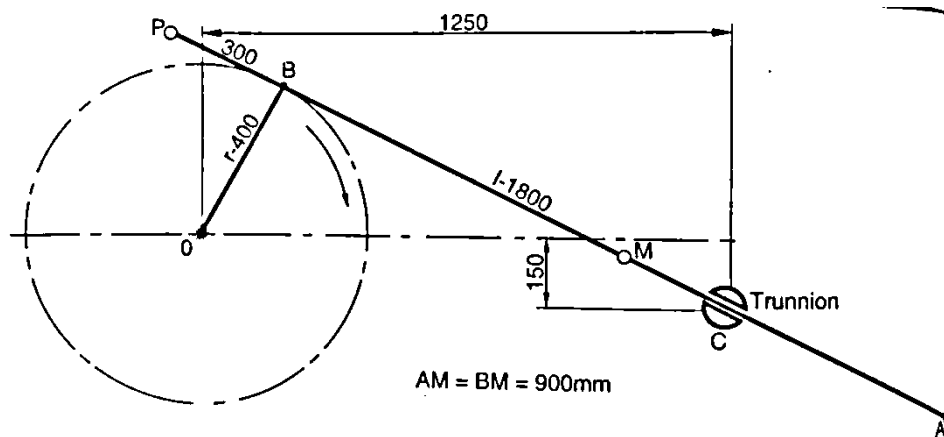


Figure.3

### ➤ Course Outcomes (COs)

<b>CO-1</b>	To understand the different projection systems. i.e. 1st angle system & 3rd angle system and the difference between them.
<b>CO-2</b>	To know how to obtain orthographic & isometric projections of an object.
<b>CO-3</b>	To understand the loci & applications of different Engineering Curves.
<b>CO-4</b>	To understand the application of projections of points, lines, planes & solids for real life objects.
<b>CO-5</b>	To understand the effect of surface inclination with principle planes on projections of a plane & development of surfaces.
<b>CO-6</b>	To get familiar with designing softwares like AutoCAD.

- **Legends:** R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate, C: Create (Revised Bloom's Taxonomy)