

**Day and Date: Wednesday, 13/04/2022**

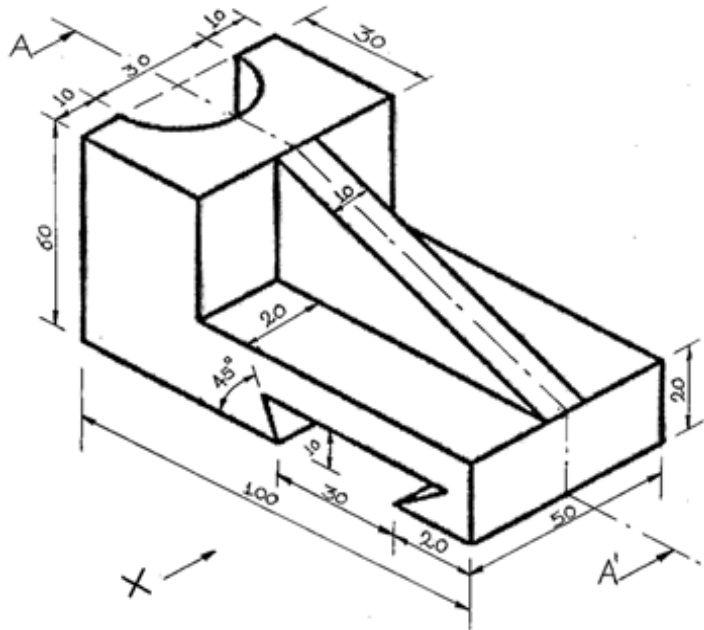
**Time: 10.00 am to 12.30 pm**

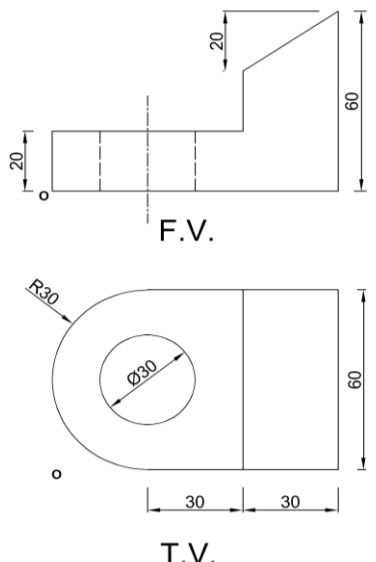
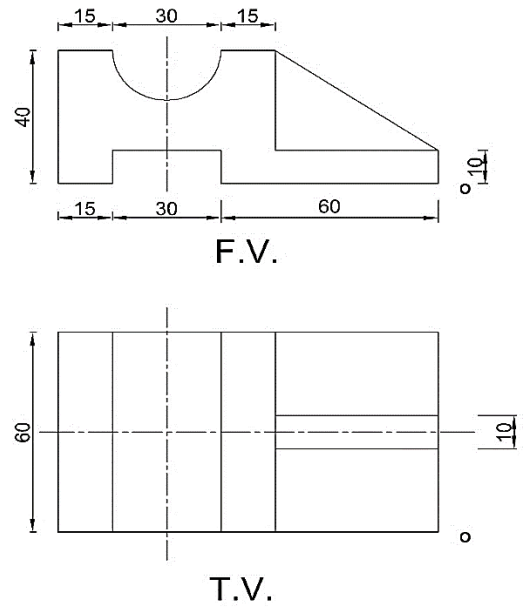
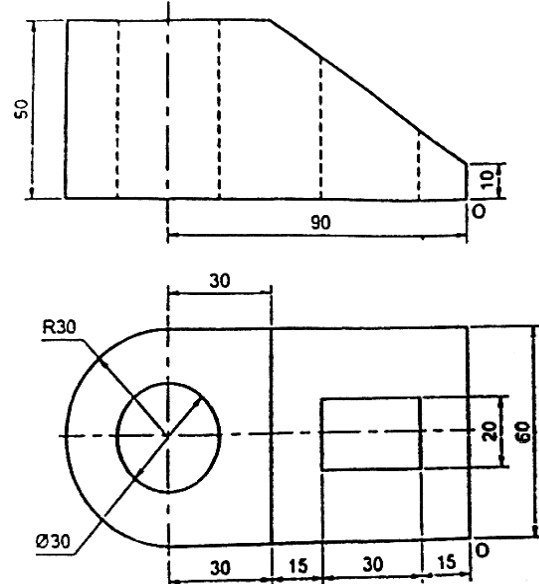
Seat No:

**Max. Marks - 50**

**Instructions:**

- All Questions are compulsory.
- Figure to the right indicate full marks.
- All the dimensions are in mm.
- Assume suitable data if necessary and state it clearly.

BTL	CO's	Q. No.		Marks
		<b>Q.1</b>	<b>Attempt any One.</b>	<b>5</b>
1,2	CO 104.1	a	The major axis of an ellipse is 130 mm long and the minor axis is 80 mm long. Find the foci and draw the ellipse by arcs of circles method.	
1,2	CO 104.1	b	Draw hyperbola having eccentricity $3/2$ , when distance between directrix and focus is 50 mm.	
		<b>Q.2</b>	<b>Attempt the following.</b>	<b>7</b>
1,2	CO 104.2	a	A cone with 40 mm base circle diameter and height 70 mm resting on HP such its base makes $60^\circ$ to HP. Complete the projections.	
		<b>Q.3</b>	<b>Attempt the following.</b>	<b>8</b>
1,2	CO 104.3	a	<p>Draw sectional front view of following object along X-direction with dimensions.</p> 	
		<b>Q.4</b>	<b>Attempt any two.</b>	<b>18</b>
1,2	CO 104.3	a	Draw isometric view of following.	<b>9</b>

			 <p>F.V.</p> <p>T.V.</p>		
1,2	CO 104.3	b	<p><i>Draw isometric view of following.</i></p>  <p>F.V.</p> <p>T.V.</p>	9	
1,2	CO 104.3	c	<p><i>Draw isometric view of following.</i></p> 	9	
		Q.5	Attempt the following.	6	
1,2,5	CO	a	What are the basic steps to be followed before setting up a drawing?	2	

	<b>104.4</b>				
<b>1,2,5</b>	<b>CO 104.4</b>	<b>b</b>	<i>What do you mean by Polyline. How it is different from normal line?</i>		<b>2</b>
<b>1,2,5</b>	<b>CO 104.4</b>	<b>c</b>	<i>What do you mean by Ortho Mode in AutoCAD?</i>		<b>2</b>
		<b>Q.6</b>	<b>Attempt the following.</b>		<b>6</b>
<b>1,2,5</b>	<b>CO 104.4</b>	<b>a</b>	<i>What do you mean by Fillet and Chamfering in AutoCAD?</i>		<b>2</b>
<b>1,2,5</b>	<b>CO 104.4</b>	<b>b</b>	<i>What is Trim command in AutoCAD?</i>		<b>2</b>
<b>1,2,5</b>	<b>CO 104.4</b>	<b>c</b>	<i>What is the use of COPY command in AutoCAD?</i>		<b>2</b>

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