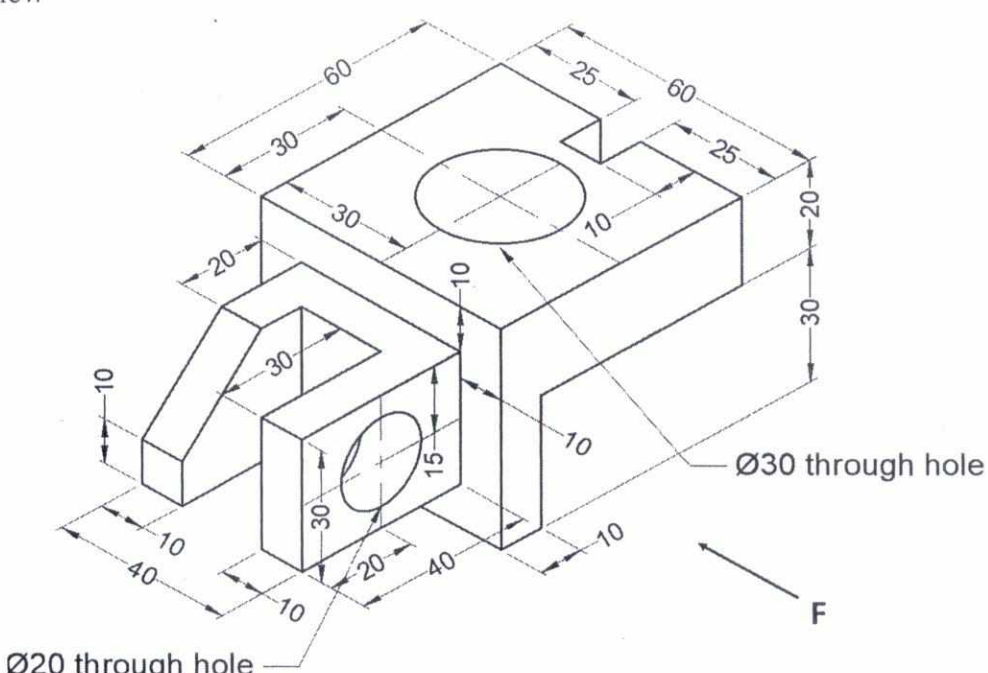




Roll Number: _____	Lab no.: _____	System No.: _____
<b>Thapar Institute of Engineering &amp; Technology, Patiala</b>		
<b>MID SEMESTER TEST</b>		
B. E. (First Year): <b>Semester – I</b> <b>(2023-24)</b>	Course Code: UES101/UTA015 Course Name: Engineering Drawing	
Date: October 4, 2023	<b>Time: 11:30 AM – 01.00 PM</b>	
M. Marks: 30 marks	Name of Faculty: SBH/SKS/NK/RKS/AG/APS/VVK/MNP/ABK/DPM/PTK	

**Important Instructions:**

1. Use the AutoCAD template file and save it as Your **Full Roll No** (e.g. 102103301.dwg) on **DESKTOP** of your system.
2. **All Questions are compulsory. Attempt all the questions within the designated place/boxes in the AutoCAD template file.**
3. All dimensions in figures are in mm. Assume missing data, if any, suitably.
4. Keep on **PERIODICALLY SAVING** the AutoCAD file in order to avoid any inadvertent loss of data.
5. Submit the .dwg file in the submission portal. **Final MST File should be uploaded in given exam timing. Only uploaded file on portal will be considered for evaluation.**

Q.1	A point P is 40 mm behind VP and in third quadrant. Its shortest distance from the XY, line is 60 mm. Draw all three projections (FV, TV and SV) of this point P. This point further moves from its current position, 20 mm away from VP and 25 mm away from HP to reach new position P1. Draw and mark the shortest distance of point P1 from XY line.	(5)
Q.2	Two apples ( <b>consider as points</b> ) A and B, are hanging from a tree planted in a plot having the front wall Q and side wall P, meeting at 90°. Apple A is at a distance of 5.5 meters from wall Q and at a height of 1.5 meters from the ground. Apple B is at a distance 2.5 meters from the wall Q. The projected distance between the apple A and the apple B on the side wall P is 4 meters and on the front wall Q is 5 meters. Draw the projections of the line joining the apple A and apple B <b>considering the scale 1 meter = 20 millimeters</b> and determine <ul style="list-style-type: none"> <li>• the shortest distance of the apple A from the line of intersection between the front wall and the ground</li> <li>• the projected distance between apple A and apple B in the plan</li> </ul>	(10)
Q.3	<p>Draw the following views (in first angle) of the object depicted in the figure below:</p> <ol style="list-style-type: none"> <li>1. Full Sectional front view</li> <li>2. Top view</li> <li>3. Left side view</li> </ol>  <p>Ø20 through hole</p> <p>Ø30 through hole</p> <p>F</p>	(15)