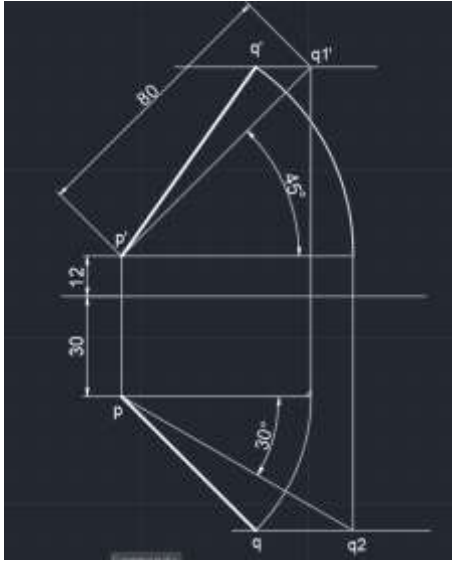

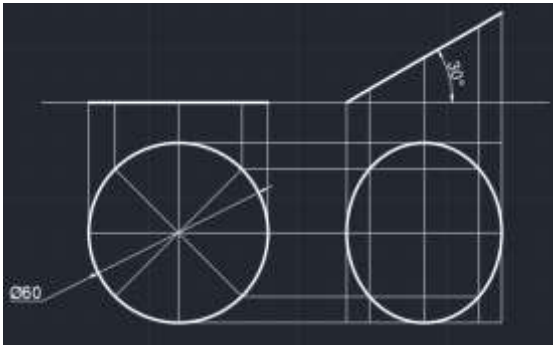
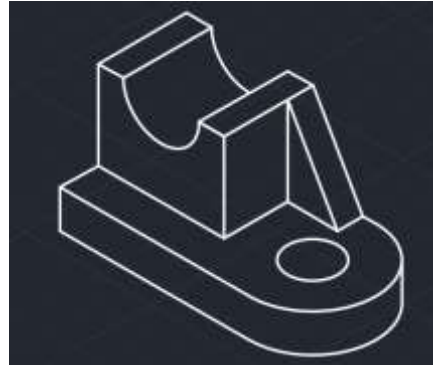
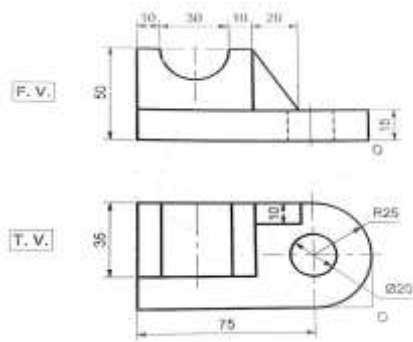


Semester: Jan 2024 – April 2024 Examination: ESE Examination		
Programme code: 01 Programme: B.TECH	Class: FY	Sem I/II (SVU 2020)
Name of the Constituent College: K. J. Somaiya College of Engineering	Name of the Department: All	
Course Code:116U06C105	Name of the Course: Engineering Drawing	
Duration : 3 Hour	Maximum Marks : 100	
Marking Scheme & Solution		

Question No.		Max Marks
Q1 (A)	<p>Solve any TWO of the following</p> <p>a) A line PQ 80 mm long inclined at an angle of 45° to HP and 30° with VP. The end P is 12 mm above H.P and 30 mm in front V.P, determine the inclinations of FV and TV with XY line if point Q is in the first quadrant.</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>Q1 (a)</p> </div> <div style="text-align: center;">  <p>Q1 (b)</p> </div> </div> <p>b) The front view of line AB 90 mm long measures 75 mm and top view measures 65 mm. Its end B is 25 mm above HP and 10 mm in front of VP. Draw the projections when point B is in first quadrant.</p> <p>c) Draw the projections of a circular plate of 60 mm diameter resting on its point on its circumference in HP such that its surface is inclined at 30° to the HP.</p> <div style="text-align: center;">  </div>	<p>20</p> <p style="color: red; font-weight: bold;">10 mark each</p>

5 mark 5 mark

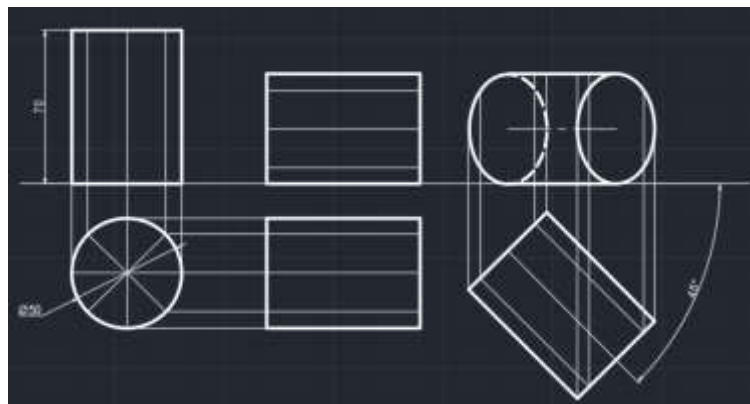
c) Figure shows F.V. and T.V. of an object. Draw isometric view about an origin 'O'.



10 m

Q4

A right circular cylinder of base circle 50 mm axis height 70 mm is resting on one of its generator in HP and the TV of the axis is inclined at 45° to VP. Draw the projections of cylinder.



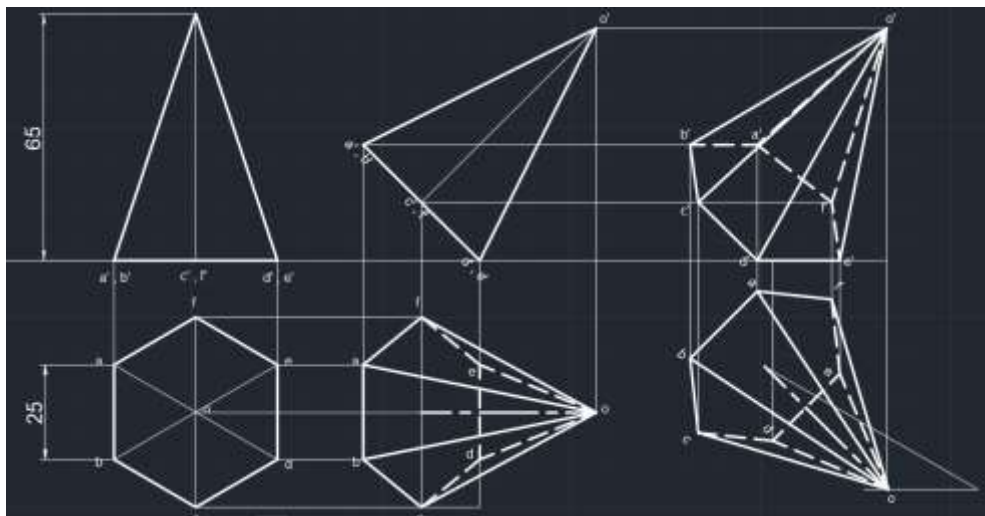
7 m

7 m

6 m

OR

A hexagonal pyramid of 25 mm edge of base and 65 mm length of an axis is resting on one of its edges of the base. The axis makes an angle of 45° with HP and 30° to the VP. Draw the projection of pyramid.



7 m

7 m

6 m

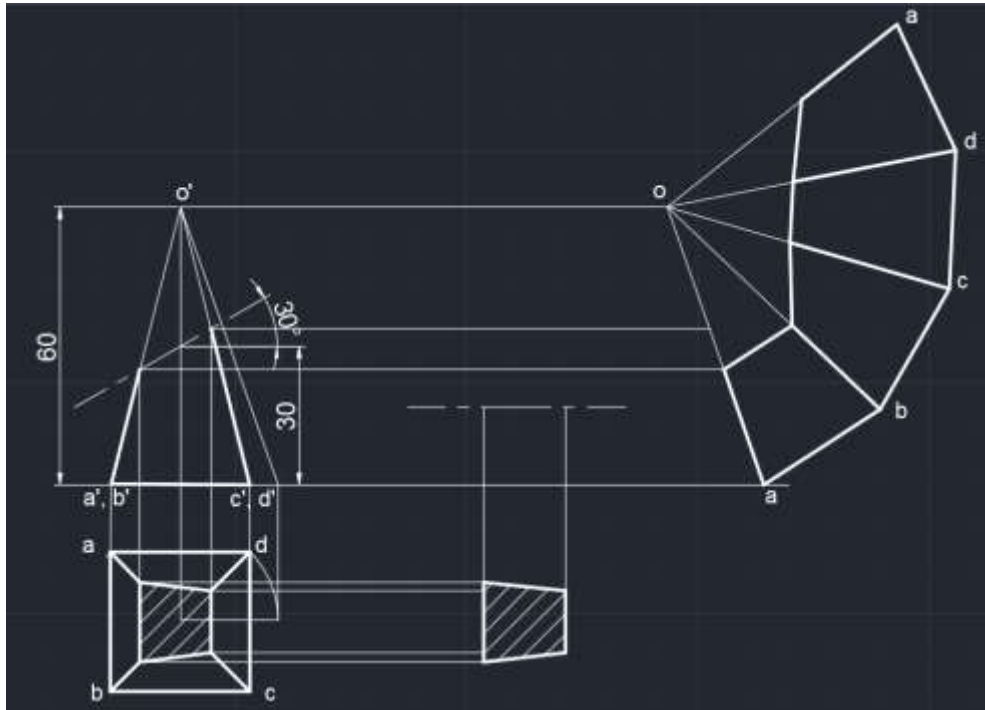
Q5

A square pyramid of side of base 30 mm and axis 60 mm has its base on HP such that two of its sides of base perpendicular to VP. It is cut by a section plane perpendicular to the VP and inclined at 30° to the HP, passing through the mid-point of axis. Draw the FV, sectional TV and true shape of section. Draw the development of lateral surface of retained pyramid.

20

5m

5m



6m

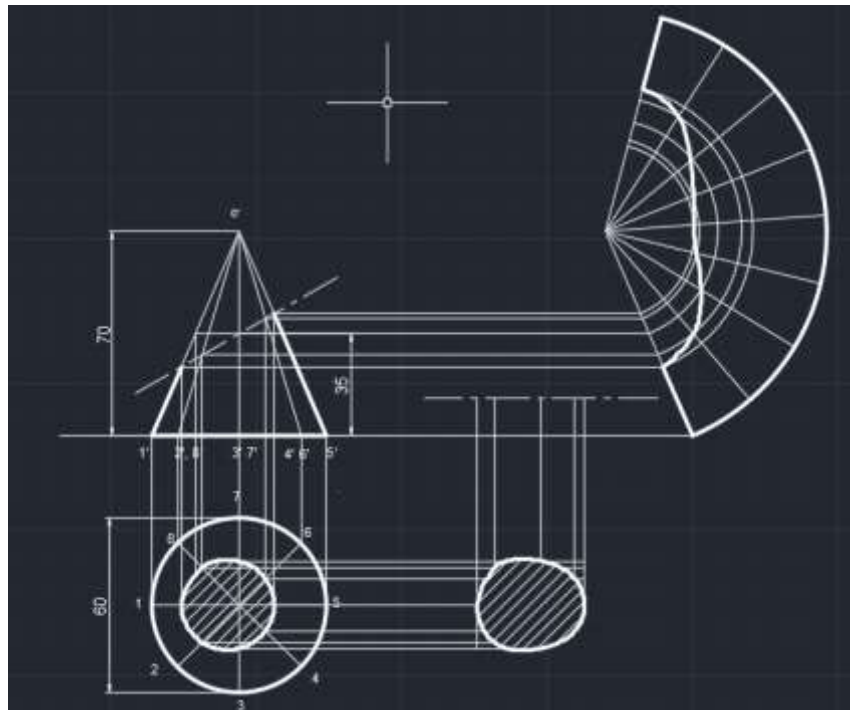
4m

OR

A cone of base 60 mm diameter and axis 70 mm long is resting on its base on HP. It is cut by a section plane inclined to HP at 30° and perpendicular to VP which passing through the mid-point of the axis. Draw the sectional top view, front view and true shape of the section. Also draw the development of the lateral surface.

5m

5m



6m

4m