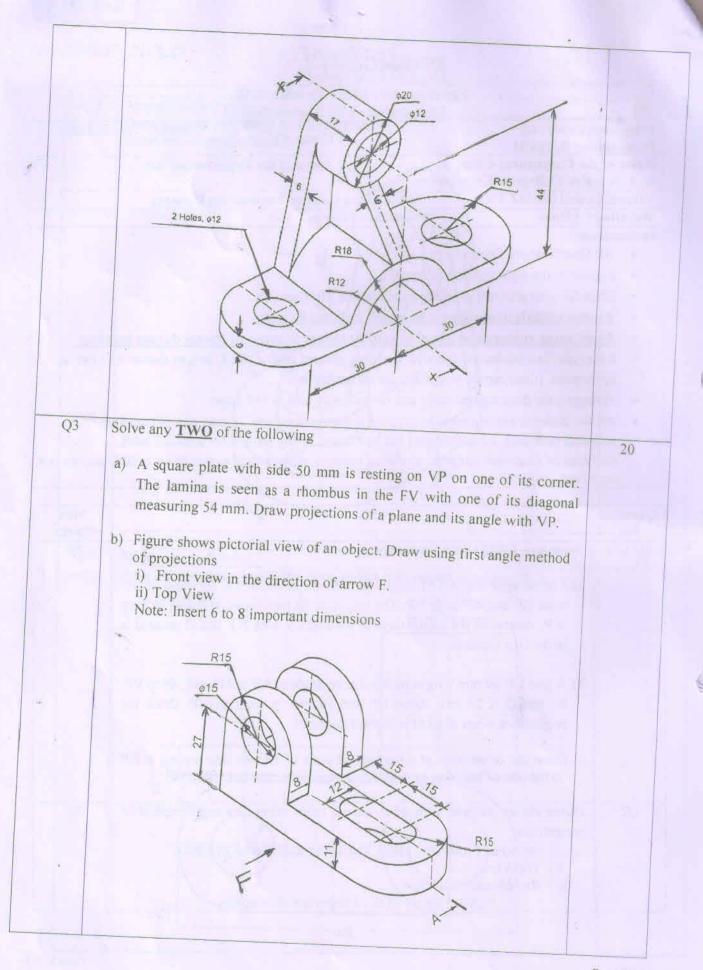


	emester: July 20 Examination:	023 – October 2023 ESE Examination	
Programme code: 06 Programme: B.TECH		Class: FY	Sem I (SVU 2020)
Name of the Constituent Colleg K. J. Somaiya College of Engin	e: eering	Name of the Dep	partment: All
Course Code:116U06C105	Sold Harris	he Course: Engineer	ring Drawing
Duration: 3 Hour	Maximum	Marks: 100	ing Drawing
Instructioner			

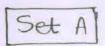
Instructions:

- All Questions are Compulsory.
- Figures to the right indicate full marks.
- Illustrate your answers using figures, sketches, diagrams etc.
- Assume suitable dimensions if necessary and state it clearly.
- Avoid using colours and layers in your drawings to avoid problems during printing.
- Line type, line thickness, text size, text font, content of title block, proper dimensions etc. at appropriate place carries weightage during assessment.
- Arrange your drawings properly and on minimum number of pages.
- All the students are requested to save the drawings regularly. In case of any hardware or software problems, extra time will not be allotted to any student for unsaved work. Any kind of electronic gadgets capable of memory storage such as pen drive, mobile etc. are not permitted.

Question No.		Max
Q1 (A)	a) The straight line AB of length 70 mm and is inclined at an angle of 30° with HP and 40° with VP. The end A is 15 mm above H.P and in front V.P, determine the inclinations of FV and TV with XY line if point B is in the first quadrant.	Marks 20
	 b) A line CD 80 mm long is inclined at an angle of 40° to HP and 30° to VP. Its end C is 25 mm above HP and 10 mm in front of VP. Draw the projections when point D is in third quadrant. c) Draw the projections of a pentagonal plate of 30 mm side resting in HP on the one of the edge such that its surface is inclined at 50° to HP. 	
Q2	Figure shows pictorial view of an object. Draw using first angle method of projections, i) Sectional Front view along X-X in the direction of an arrow; ii) Top View; iii) Right Hand Side View Note: Insert 10 to 12 important dimensions	20



	c) Figure shows F.V. and T.V. of an object. Draw isometric view about an		
	origin 'O'.		
	205		
	100		
	F.V.		
	8 08 08 08 08 08 08 08 08 08 08 08 08 08		
	12 44 T.V.		
Q4	A hexagonal prism of 30 mm edge of base and 60 mm length of an axis is resting on one of its edges of the base. The axis makes an angle of 50° with HP. Draw the projections if the TV of an axis is inclined at 30° to the V.P. OR	20	
	A right circular cone of base circle 60 mm axis height 70 mm is resting on one of its generator in HP and the TV of the axis is inclined at 30° to VP. Draw the projections of cone.		
Q5	A hexagonal pyramid of side of base 35 mm and axis 65 mm has its base on H.P. such that two of its sides of base perpendicular to V.P. It is cut by a section plane perpendicular to the H.P. and inclined at 30° to the V.P. passing through the point on axis at a distance of 15 mm away from the axis of the pyramid. Draw the sectional FV, TV and true shape of section. Draw the development of lateral surface of retained pyramid. OR	20	
*	A cylinder of base 60 mm diameter and axis 80 mm long is resting on its base on HP. It is cut by a section plane perpendicular to V.P. and inclined to HP at 30° and 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.		





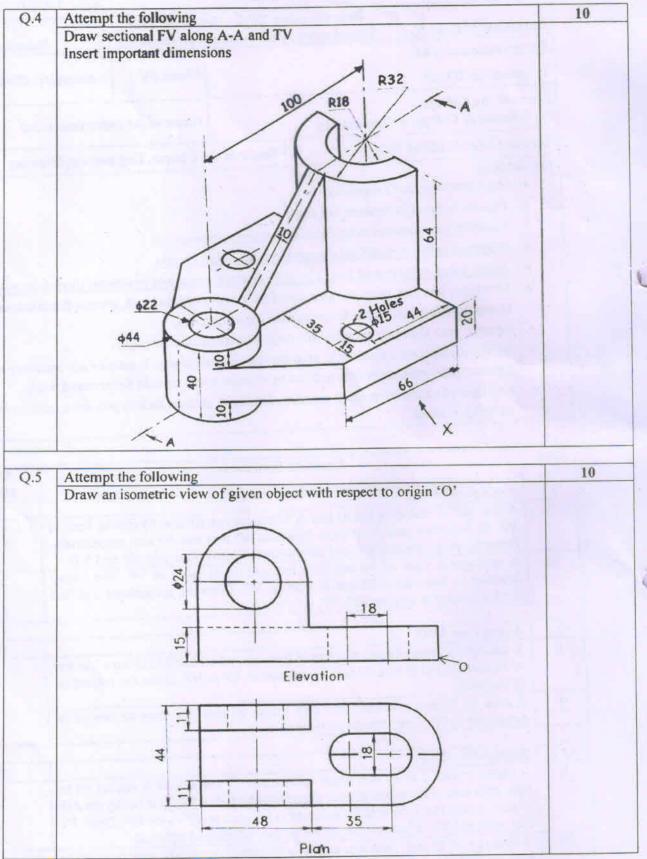
20.12.2023(M)

	Semester: July 2023 – I camination: End-Seme	December 2023 ster Examination	Duration: 2 Hrs.
Programme code: 06 Programme: BTech		Class: FY	Semester: (SVU 2023)
Name of the College: K. J. Somaiya College of En	neering	Name of the d	lepartment: All
Course Code: 216U06C105	Name of	the Course: Eng	ineering Drawing
Instructions:			

- All Questions are Compulsory.
- Figures to the right indicate full marks.
- Illustrate your answers using figures, sketches, diagrams etc.
- Assume suitable dimensions if necessary and state it clearly.
- Avoid using colours and layers in your drawings to avoid problems during printing.
- Line type, line thickness, text size, text font, content of title block, proper dimensions etc. at appropriate place carries weightage during assessment.
- Arrange your drawings properly and on minimum number of pages.
- All the students are requested to save the drawings regularly. In case of any hardware or software problems, extra time will not be allotted to any student for unsaved work.
- Any kind of electronic gadgets capable of memory storage such as pen drive, mobile etc. are not permitted.

Que. No.	Question Statement	Max. Marks		
Q.1	Attempt any ONE			
i)	A line AB 70 mm long has its end A 10 mm above HP and 15 mm in front of VP. Its top view and front view measures 60 mm and 40 mm respectively. Draw the projections of line and determine its inclinations with HP and VP.	10		
ii)	A pentagonal plate of 30 mm side has one of its sides in VP. The corner opposite to this side is 20 mm in front of VP. Draw the projections and find the inclination of surface with VP.			
Q.2	Attempt any ONE	10		
i)	A pentagonal prism having an edge of base 25 mm axis height 60 mm has one of its corners in HP and the axis is inclined at 30° to HP. Draw the projection of the solid.	10		
ii)	A cone of 50 mm diameter and axis length 70 mm is resting on one of its generators in HP. Draw the projections of cone.			
Q.3	Attempt any ONE	10		
i)	A square pyramid of 30 mm edges of base and 50 mm height is resting on its base with one of the edges of base perpendicular to the VP. It is cut by an AIP in such a way that it bisects the axis and is inclined at 45° to the HP. Draw FV and sectional TV. Also develop lateral surface of retained pyramid	10		
ii)	A cylinder of 56 mm diameter and axis 60 mm long stands with its circular base on HP. A section plane perpendicular to VP and inclined at 45° to HP cuts the axis at a point 25 mm from its top end. Draw FV and sectional TV. Also draw the development of lateral surface of retained cylinder.			







[Set B] 20.12.2023 (M)

Maximum Marks: 50		July 2023 – De : End-Semeste	er Examination	Duration: 2 Hrs.
Programme code: 06 Programme: BTech			Class: FY	Semester: (SVU 2023)
Name of the College: K. J. Somaiya College of	Engineering		Name of the de	epartment: All
Course Code: 116U06C1	05	Name of the	he Course: Engi	neering Drawing

Instructions:

- All Questions are Compulsory.
- Figures to the right indicate full marks.
- Illustrate your answers using figures, sketches, diagrams etc.
- Assume suitable dimensions if necessary and state it clearly.
- Avoid using colours and layers in your drawings to avoid problems during printing.
- Line type, line thickness, text size, text font, content of title block, proper dimensions etc. at appropriate place carries weightage during assessment.
- Arrange your drawings properly and on minimum number of pages.
- All the students are requested to save the drawings regularly. In case of any hardware or software problems, extra time will not be allotted to any student for unsaved work.
- Any kind of electronic gadgets capable of memory storage such as pen drive, mobile etc. are not permitted.

Que. No.		
Q.1	Attempt any one	10
i)	The FV of a line AB is 60 mm long and is inclined at 60° to the XY line. The end point A is 12 mm above the HP and 25 mm in front of the VP. Draw the projections of line if it is inclined at 45° to the HP and is in the first quadrant. Find the true length and true inclinations of a line with the VP.	
ii)	A Hexagonal plane of 30 mm side has an edge in the VP. The surface of the plane is inclined at 45° to the VP. Draw its projection.	
Q.2	Attempt any one	10
i)	A square prism, side of base 40 mm and height 60 mm is resting on one of the corner of the base on the HP. The longer edge containing the corner is inclined at 50° to the HP. Draw the projections of a prism.	
ii)	A hexagonal pyramid of base side 30 mm and axis 60 mm has one of its slant edges on the HP. Draw its projection.	
Q.3	Attempt any one	10
i)	A square pyramid, base 30 mm and axis 40 mm long stands vertically on the HP with the edges of a base equally inclined to the VP. It is cut by the section plane perpendicular to the VP, inclined at 45° to the HP and passing through the point on the axis 25 mm from the apex. Draw the FV, sectional TV. Also draw the development of lateral surface assuming apex part to be removed.	



ii) A cylinder, 30 mm diameter and 50 mm long stands vertically on its circular base. It is cut by an AIP inclined at 45° to the HP which bisects an axis of a cylinder. Draw the sectional top view and front view. Also draw the development of lateral surface of truncated cylinder. Q.4 Attempt the following 10 Draw sectional FV along A-A and TV Insert important dimensions R10 Q.5 Attempt the following 10 Draw an isometric view of given object with respect to origin 'O' 8 0 10 0



set c

20.12.2023/m)

Maximum Marks: 50	Semester: July 20 Examination: End-	23 – December 2023 Semester Examination	Duration: 2 Hrs.
Programme code: 06 Programme: BTech		Class: FY	Semester: (SVU 2023)
Name of the College: K. J. Somaiya College of E	ngineering	Name of the d	epartment: All
Course Code: 216U06C105	Nar	ne of the Course: Engi	neering Drawing

- All Questions are Compulsory.
- Figures to the right indicate full marks.
- Illustrate your answers using figures, sketches, diagrams etc.
- Assume suitable dimensions if necessary and state it clearly.
- Avoid using colours and layers in your drawings to avoid problems during printing.
- Line type, line thickness, text size, text font, content of title block, proper dimensions etc. at appropriate place carries weightage during assessment.
- Arrange your drawings properly and on minimum number of pages.
- All the students are requested to save the drawings regularly. In case of any hardware or software problems, extra time will not be allotted to any student for unsaved work.
- Any kind of electronic gadgets capable of memory storage such as pen drive, mobile etc. are not permitted.

Que. No.	Question Statement	Max.
Q.1	Attempt any ONE	Marks
i)	A line AB 100 mm long having inclinations of 30° and 45° with HP and VP respectively. It's one end A is 15 mm above HP, 20 mm in front of VP. Draw the projections of line.	10
ii)	A regular pentagonal lamina of side 20 mm, is resting on one of corners in the HP and it is inclined at 45° with HP. Draw the projections of lamina.	
Q.2	Attempt any ONE	
i)	A regular hexagonal prism of base side 25	10
	A regular hexagonal prism of base side 35 mm and height 80 mm rests on one of its corner on ground. Draw the projection of the solid if its axis is inclined at 45° to HP and parallel to VP.	
ii)	A regular pentagonal pyramid has base side 40 mm and axis height 85 mm. It rests in HP on one of its triangular faces on HP. Draw the projection of the solid.	
2.3	Attempt any ONE	
i)	A right circular cope of base diameter 40	10
	A right circular cone of base diameter 40 mm axis height 50 mm has its base in HP. It is cut by an auxiliary inclined plane which makes an angle 45° with HP and passes through a point on axis 20 mm below the apex. Draw FV and sectional TV. Also develop the lateral surface of retained cone.	
	A cylinder of 60 mm diameter of base and 80 mm height is resting on its base on HP. It is cut by a section plane normal to VP and inclined to HP such that it passes through the extreme left bottom corner and extreme right top corner of the elevation. Draw FV and sectional TV. Also draw the development of ateral surface of retained cylinder.	



