



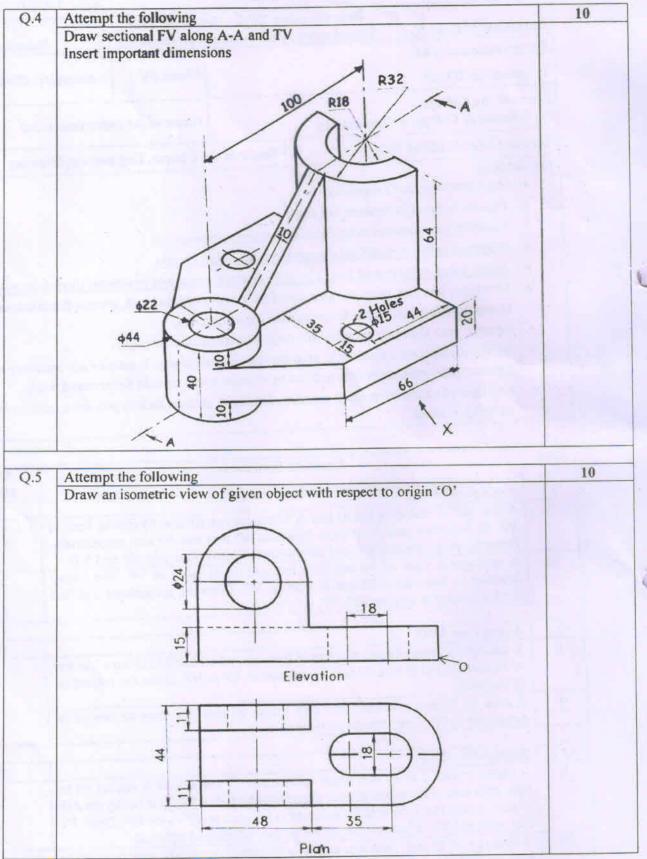
20.12.2023(M)

Maximum Marks: 50	Semester Examination	: July 2023 – E on: End-Semes	ecember 2023 ter 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 d	lepartment: All
Course Code: 216U06C105 Name		Name of	of the Course: Engineering Drawing	
Instructions:				mooring 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. Marks
Q.1	Attempt any ONE	10
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		uly 2023 – December 2023 End-Semester 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 d	lepartment: All
Course Code: 21 6U06C105		Name of the Course: Engineering Drawing	

Instructions:

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- 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	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



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20.12.2023/m)

Maximum Marks: 50	Semester: July Examination: En	2023 – December 2023 nd-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	· ·	Name of the Course: Engi	neering Drawing

- All Questions are Compulsory.
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- 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 cone of base diameter 10	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.	



