



Set-A 14.05.2024 (m)

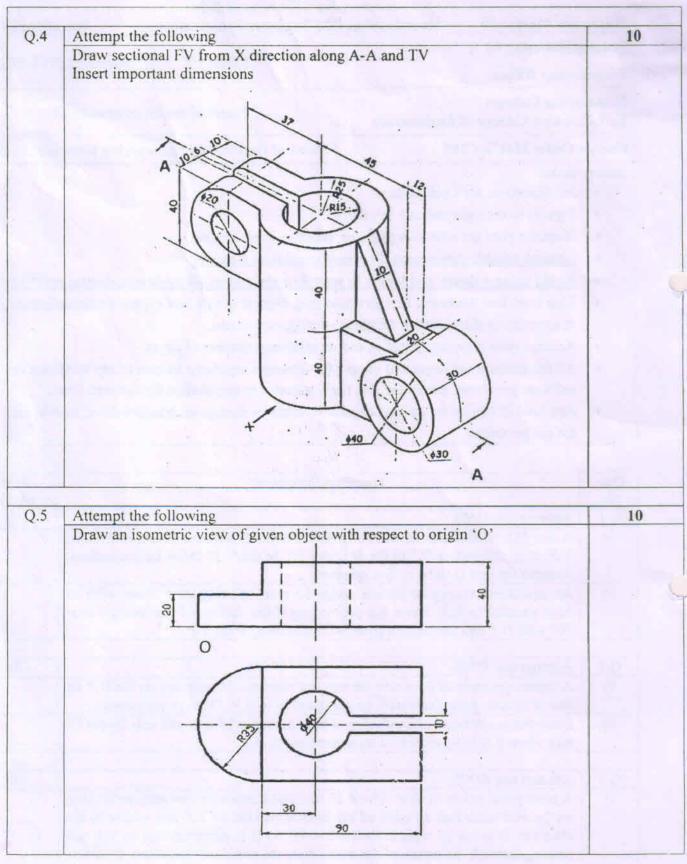
Maximum Marks: 50		er: Jan 2024 – Ap n: End-Semester l		Duration: 2 Hrs.
Programme code: 01 Programme: BTech		C	Class: FY	Semester: (SVU 2023)
Name of the College: K. J. Somaiya College of	Engineering	N	lame of the	department: All
Course Code: 216U06C1	05	Name of the	of the Course: Engineering Drawing	

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	10
i)	A line PQ, 65 mm has its end P, 15 mm above H.P and and 15mm in front of V.P. It is inclined at 55° to the H.P and 35° to the V.P. Draw its projections. Assume the end Q to be in first quadrant.	
ii)	An equilateral triangular lamina, edge 30 mm is resting on a corner with an edge parallel to H.P. Draw the projections if the surface of the triangle is at 30° with H.P and the nearest point is 25 mm away from V.P.	
Q.2	Attempt any ONE	10
i)	A square pyramid of base side 60 mm and altitude 100 mm lies on the H.P on one of its triangular faces with its axis parallel to V.P. Draw its projections.	
ii)	Draw the projections of a cylinder of base diameter 50 mm and axis length 70 mm when it is lying on one of its generators on H.P.	
Q.3	Attempt any ONE	10
i)	A pentagonal prism of side of base 25 mm and altitude 50 mm rests on its base on the H.P such that an edge of the base is parallel to V.P and nearer to the observer. It is cut by a plane inclined at 45° to H.P, perpendicular to V.P and passing through the centre of the axis. Draw the sectional to pview, from view and lateral development of the truncated prism.	
ii)	A solid cone of base 50 mm diameter and height 65 mm rests with its base on the H.P. A section plane perpendicular to V.P and inclined at 30° to H.P bisects the axis of the cone. Draw the sectional top view, front view and development of the lateral surface of the cone.	







Set-B 14.05.2024 (m)

Maximum Marks: 50 E	Semester: January 202 xamination: End-Semes		Duration: 2 Hrs.
Programme code: 06 Programme: BTech		Class: FY	Semester: II (SVU 2023)
Name of the College: K. J. Somaiya College of Eng	ineering	Name of the d	epartment: All
Course Code: 216U06C105	Name of	the Course: Engi	ineering Drawing

Instructions:

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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. Marks
Q.1	Attempt any ONE	10
i)	A line AB 70 mm long has its end A 15 mm above HP and 25 mm in front of VP. It is inclined at 30° to HP and the distance between end projectors is 40 mm. Draw its projections when end B lies in first quadrant. Find the inclination of line with VP.	
ii)	A pentagonal plate of 35 mm side has one of its sides in HP. The corner opposite to this corner is 30 mm above HP. Draw the projections and find the inclination of surface with HP.	
Q.2	Attempt any ONE	10
i)	A pentagonal prism of 30 mm base edges and axis 70mm long is resting on HP with one of its rectangular faces perpendicular to HP and VP. Draw its projections if axis is inclined at 30° to HP.	
ii)	A cone of 50 mm diameter and axis length 70 mm is resting on its base in HP. Draw the projections of cylinder if its axis is inclined at 40° to HP.	
Q.3	Attempt any ONE	10
i)	A pentagonal pyramid of 30 mm edges of base and 65 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 cuts the axis at 25 mm from its base and is inclined at 45° to the HP. Draw FV and sectional TV. Also develop lateral surface of retained pyramid.	



A cylinder of 60 mm diameter and axis 70 mm long stands with its circular ii) base on HP. A section plane inclined at 45° to HP bisects the axis of cylinder. Draw FV and sectional TV. Also draw the development of lateral surface of retained cylinder. Q.4 Attempt the following 10 Draw sectional FV along A-A and TV Insert important dimensions WEB 8 THICK Q.5 Attempt the following 10 Draw an isometric view of given object with respect to origin 'O' 9 F.V. 110 9 T.V.



Set-C] 14.05.2024(m)

Maximum Marks: 50	Semester: Ja Examination:	nuary 2024 – April 2024 End-Semester Examination	n Duration: 2 Hrs.	
Programme code: 06 Programme: BTech		Class: FY	Semester: II (SVU 2023)	
Name of the College: K. J. Somaiya College of I	Engineering	Name of the	department: All	
Course Code: 216U06C10	5	Name of the Course: Eng	of the Course: Engineering 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.
Q.1	Attempt any ONE	Marks
i)	A line AB 60 mm long has its end A 15 mm above HP and 10 mm in front of VP. It is inclined at 450 to HP and 300 to VP. Draw its projections when end B lies in first quadrant	10
ii)	A hexagonal plate of 35 mm side has one of its corners in VP. The corner opposite to this corner is 30 mm in front of VP. Draw the projections and find the inclination of surface with VP.	
Q.2	Attempt any ONE	40
i)	A pentagonal pyramid of 30 mm base edges and axis 70mm long is lying on one of its triangular faces on HP. Draw its projections,	10
ii)	A cylinder of 50 mm diameter and axis length 70 mm is resting on its base in HP. Draw the projections of cylinder if its axis is inclined at 40° to HP.	
Q.3	Attempt any ONE	
i)	A pentagonal prism of 30 mm edges of base and 60 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 cone of 60 mm diameter and axis 70 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 base. Draw FV and sectional TV. Also draw the development of lateral surface of retained cone.	



