



SUMMER – 2022 EXAMINATION

Subject Name:

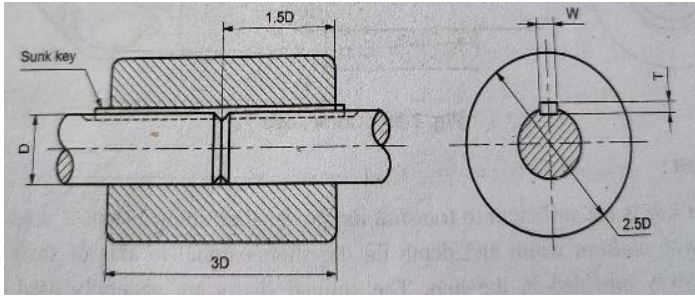
Model Answer

Subject Code:

XXXXX

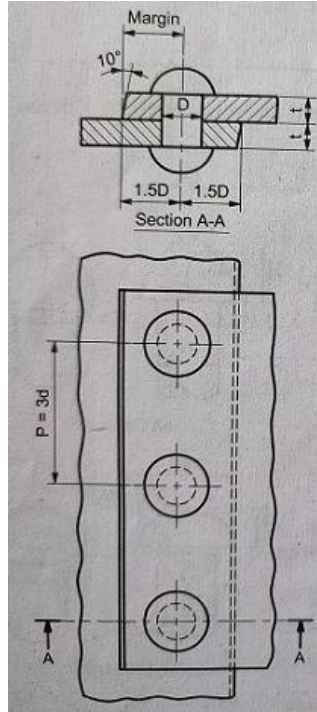
Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.
- 8) As per the policy decision of Maharashtra State Government, teaching in English/Marathi and Bilingual (English + Marathi) medium is introduced at first year of AICTE diploma Programme from academic year 2021-2022. Hence if the students in first year (first and second semesters) write answers in Marathi or bilingual language (English +Marathi), the Examiner shall consider the same and assess the answer based on matching of concepts with model answer.

Q. No.	Sub Q. N.	Answer	Marking Scheme
01	a	<p>Solve any five (10 Marks)</p> <p>Muff coupling</p> 	02

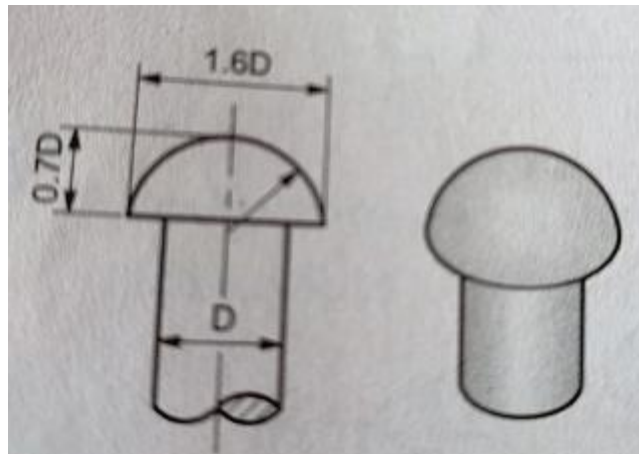


b Single Rivetted Lap joint



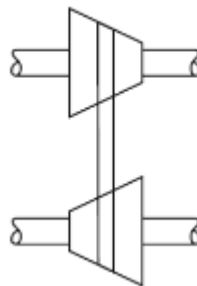
02

c Cup head rivet



02

d Cone pulley Drive



02

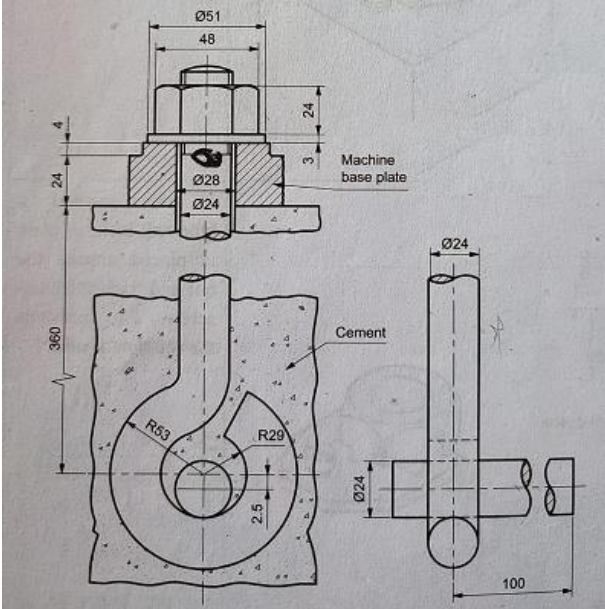
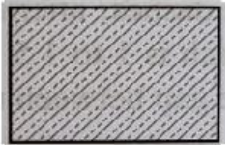
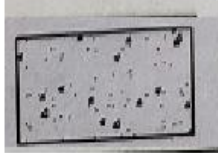
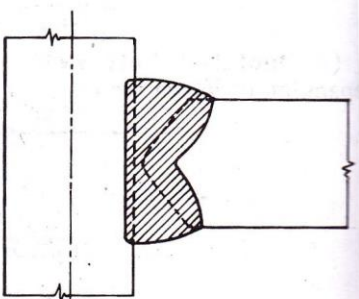
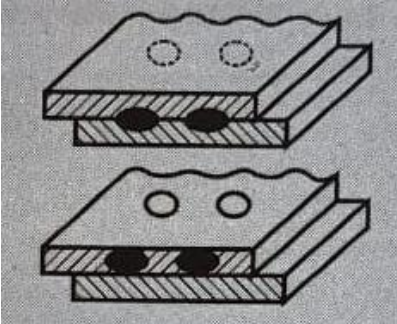


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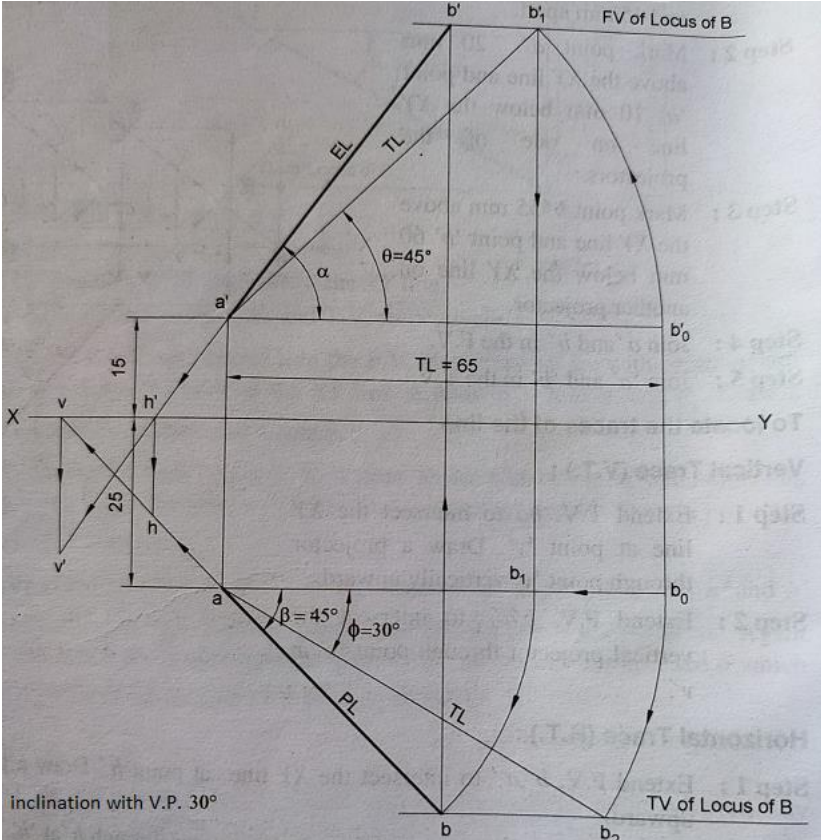
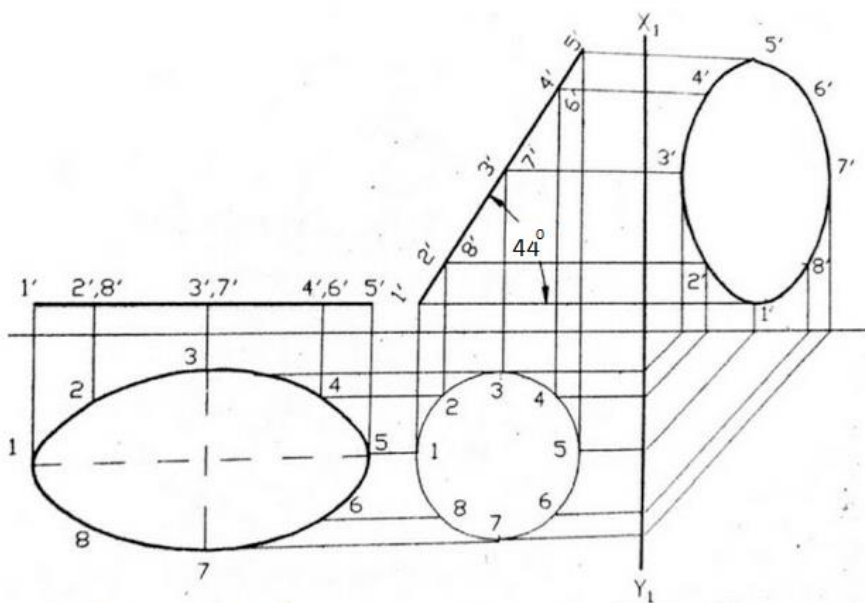
Subject Name:

Model Answer

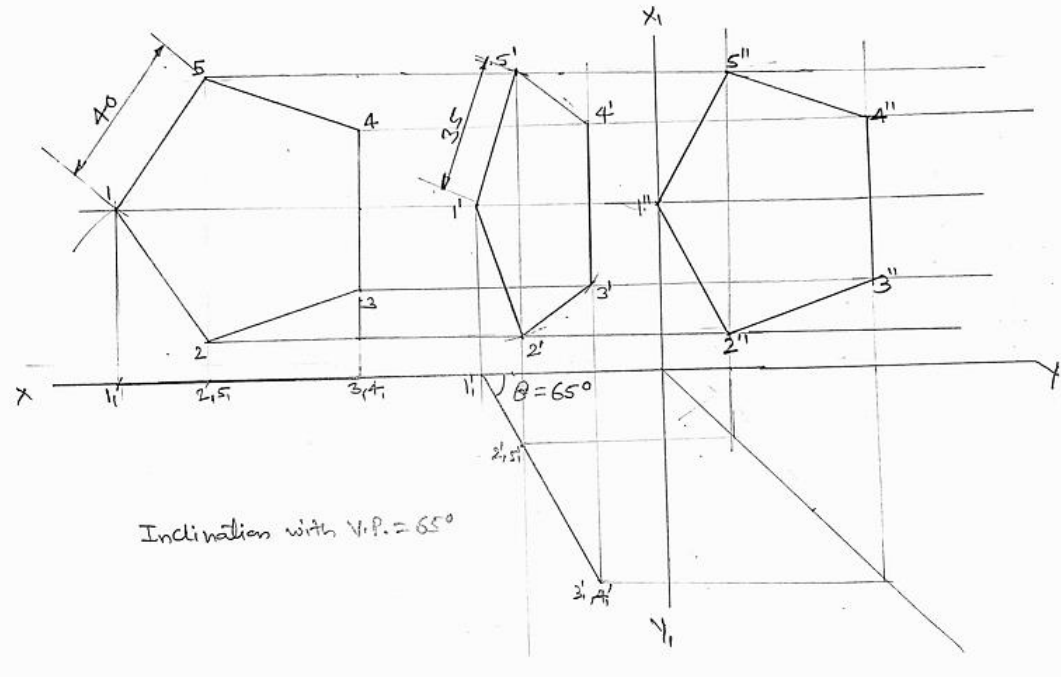
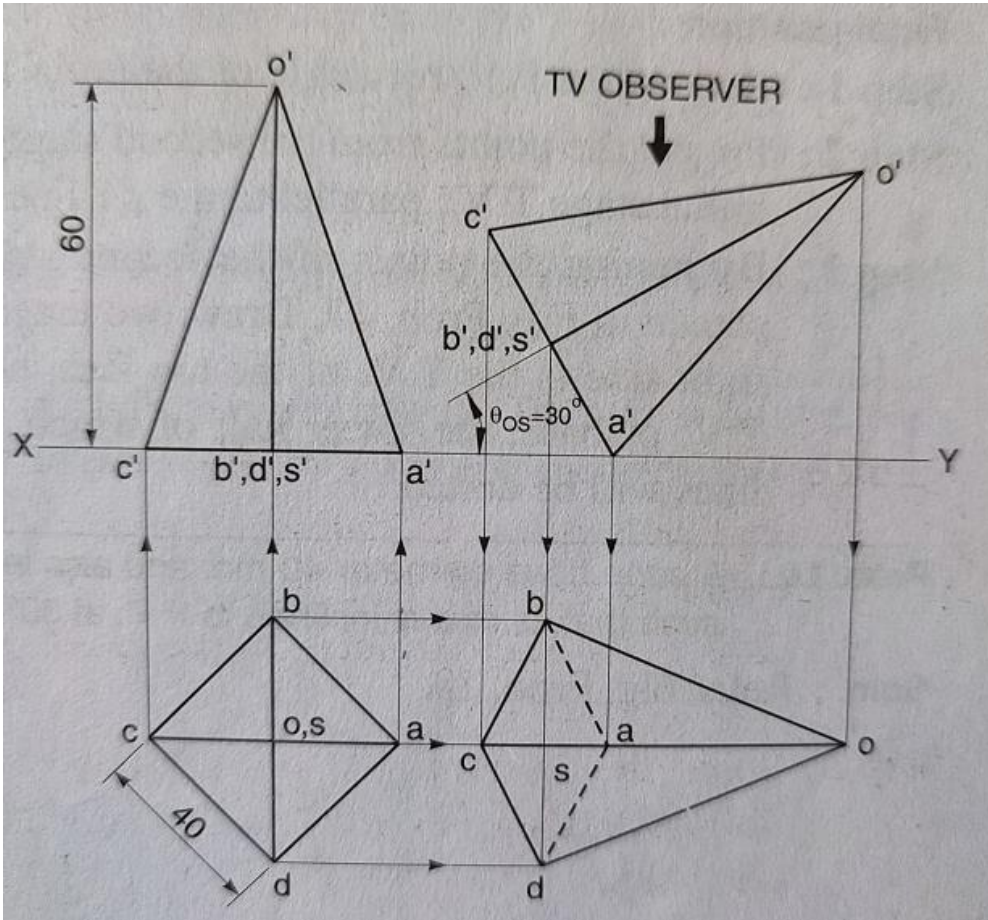
Subject Code: XXXXX

Q. No.	Sub Q. N.	Answer	Marking Scheme
01	e	<p>Eye Foundation bolt</p>  <p> Bronze 01 mark concrete 01 mark </p> <p>f</p> <p> i Bronze  </p> <p> ii Concrete  </p> <p>g</p> <p> Double bevel butt joint 01 mark Spot joint 01 mark </p>  <p>DOUBLE-BEVEL BUTT WELD</p> 	02



Q. No.	Sub Q. N.	Answer	Marking Scheme
02	a	<p>Solve any three</p>  <p>Inclination with V.P. 30°</p> <p>FV of Locus of B</p> <p>TV of Locus of B</p> <p>$\theta = 45^\circ$</p> <p>$\phi = 30^\circ$</p> <p>$TL = 65$</p> <p>16</p> <p>25</p> <p>h'</p> <p>h</p> <p>α</p> <p>$\beta = 45^\circ$</p> <p>EL</p> <p>TL</p> <p>PL</p> <p>a'</p> <p>b'</p> <p>b_1</p> <p>b_0</p> <p>a</p> <p>b</p> <p>b_2</p> <p>X</p> <p>Y</p> <p>X_1</p> <p>Y_1</p>	04
	b	 <p>Inclination with HP is 44°</p> <p>$1'$</p> <p>$2', 8'$</p> <p>$3', 7'$</p> <p>$4', 6'$</p> <p>$5', 1'$</p> <p>$2'$</p> <p>$3'$</p> <p>$4'$</p> <p>$5'$</p> <p>$6'$</p> <p>$7'$</p> <p>$8'$</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>X_1</p> <p>Y_1</p>	04



Q. No.	Sub Q. N.	Answer	Marking Scheme
02	C	 <p>Inclination with V.P. = 65°</p>	04
d		 <p>TV OBSERVER</p> <p>$\theta_{OS} = 30^\circ$</p>	04

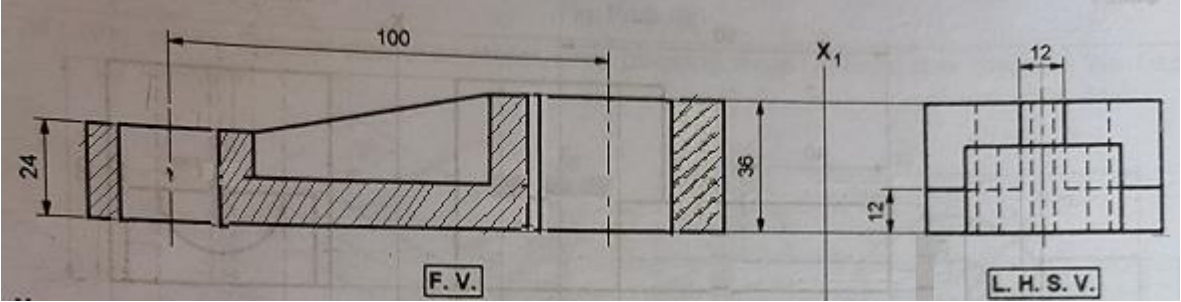
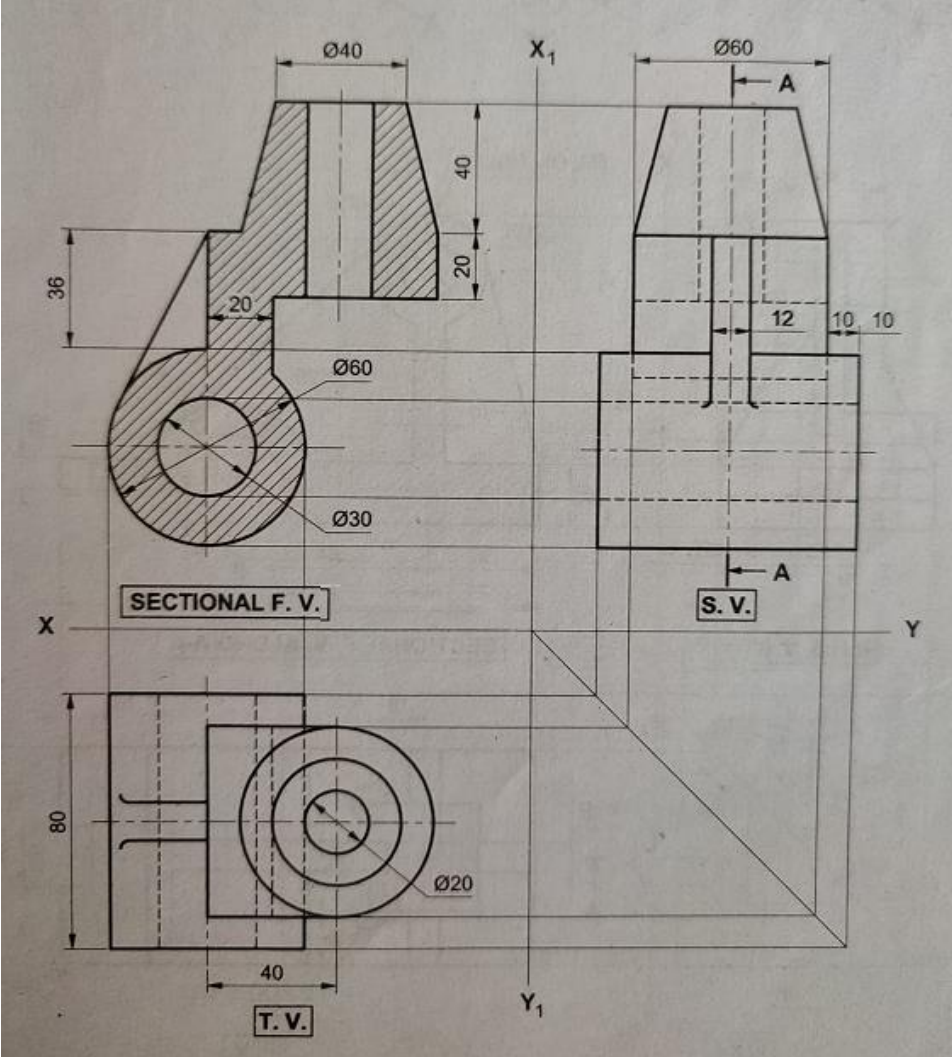


Q. No.	Sub Q. N.	Answer	Marking Scheme
02	e		04
03	a	<p>Solve any two</p>	<p>stage I - 4 Marks</p> <p>Stage II- 4 marks</p>

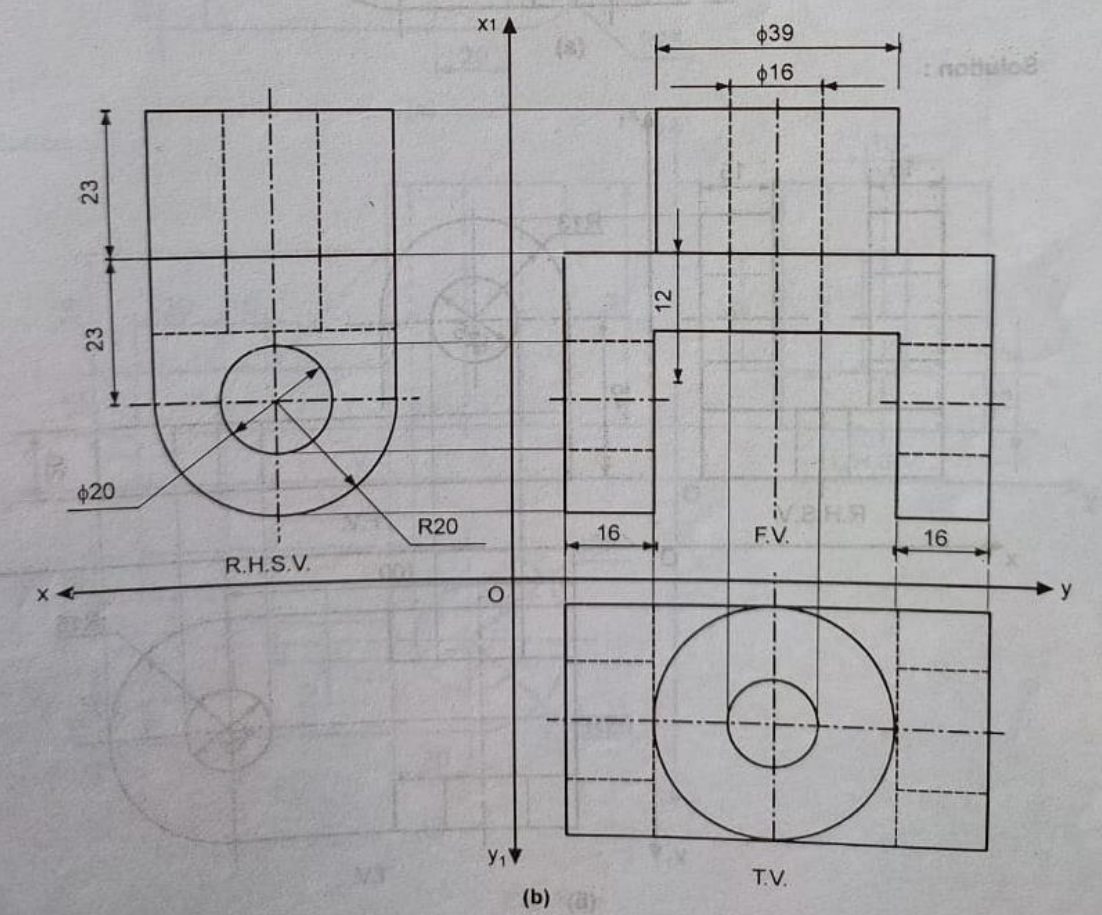


Q. No.	Sub Q. N.	Answer	Marking Scheme
03	B		<p>F.V.- 2 Marks</p> <p>Sectional T.V.-4 marks</p> <p>True shape - 2 marks</p>
03	c		<p>T.V.- 4 Marks</p> <p>sectional F.V.-4 Marks</p>

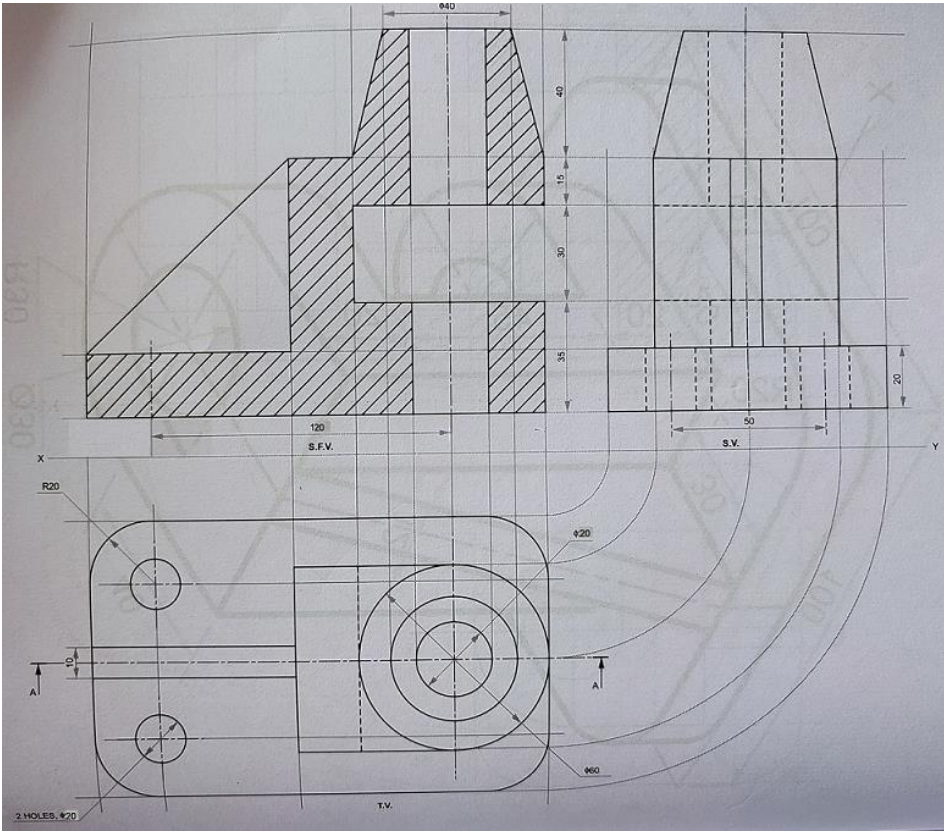
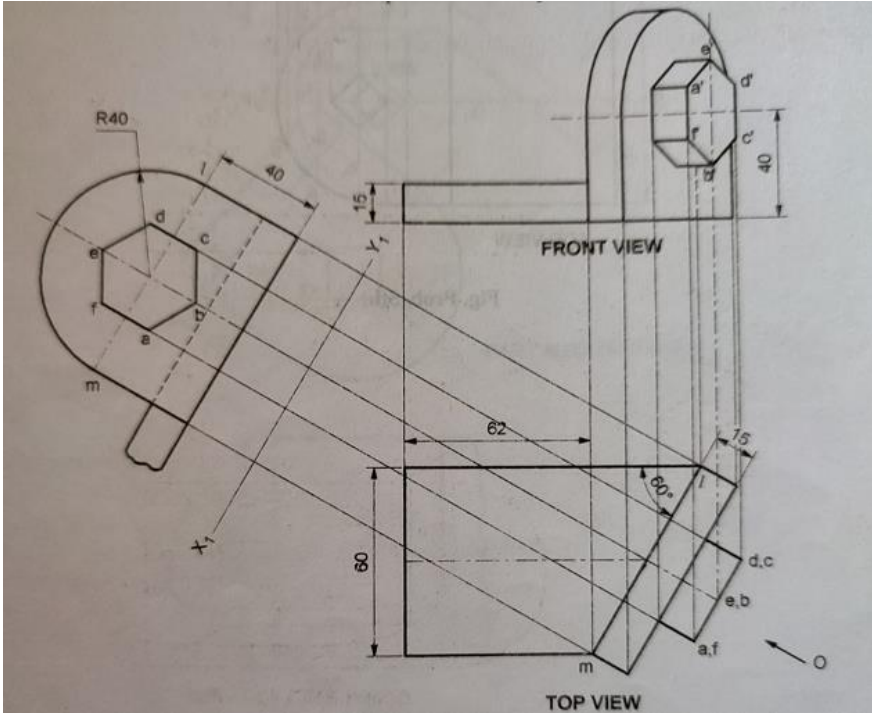


Q. No.	Sub Q. N.	Answer	Marking Scheme
04	a	<p>Solve any two</p>  <p>F. V.</p> <p>L. H. S. V.</p>	sectional F. V. in the X direction - 4 marks side view -4 marks
	b	 <p>SECTIONAL F. V.</p> <p>S. V.</p> <p>T. V.</p>	sectional F,V in the X direction-4 marks T.V.-2 marks L.H.S.V. - 2 Marks

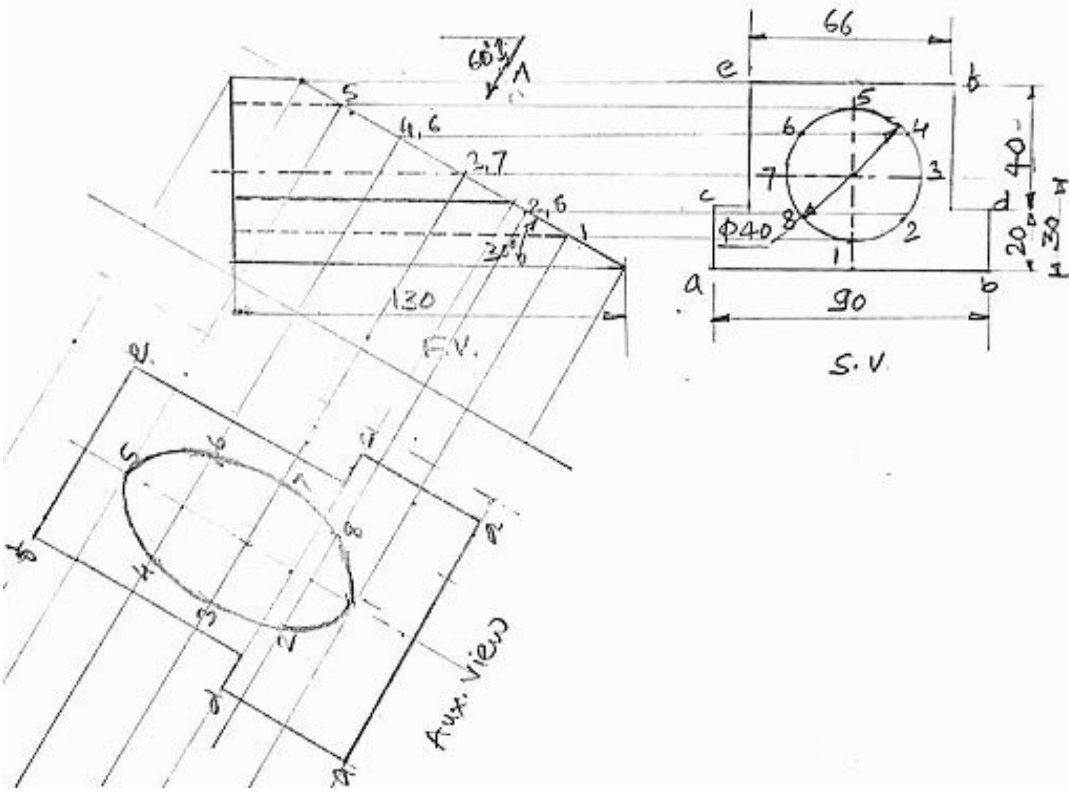


Q. No.	Sub Q. N.	Answer	Marking Scheme
04	c		Redraw F.V. - 2 Marks R H S V. - 2 marks V - 4 marks T



Q. No.	Sub Q. N.	Answer	Marking Scheme
5	a	<p>Solve any two</p>  <p>The drawing shows a stepped shaft with a semi-circular end. The side view (S.F.V.) shows a diameter of 40 for the top section, a diameter of 20 for the middle section, and a diameter of 60 for the bottom section. The section view (S.V.) shows the internal profile. The top view (T.V.) shows the semi-circular end with a radius of R20 and a diameter of 20. The drawing is labeled with X, Y, and A-A axes.</p>	<p>End view from left- 4 marks</p> <p>Sectional elevation- 4 marks</p>
05	b	 <p>The drawing shows a mechanical part with a semi-circular end and a rectangular base. The front view shows a semi-circular end with a radius of R40 and a length of 40. The top view shows a rectangular base with a height of 15 and a width of 62. The drawing is labeled with X1, Y1, and O axes.</p>	<p>complete F.V.- 4 marks T.V - 2 Marks</p> <p>part auxiliary F.V. - 2 Marks</p>



Q. No.	Sub Q. N.	Answer	Marking Scheme
05	c		F.V.-2 marks S.V. - 2 marks Auxiliary view - 4 Marks