



WINNTER– 15 EXAMINATIONS

Subject Code: 17328

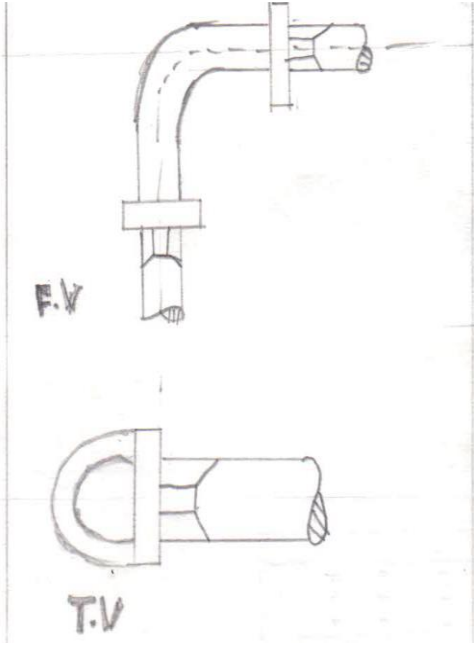
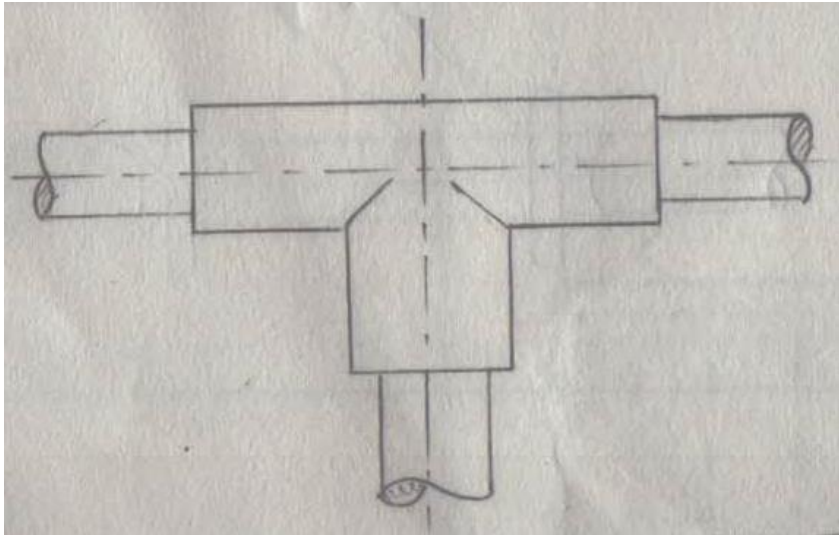
Model Answer

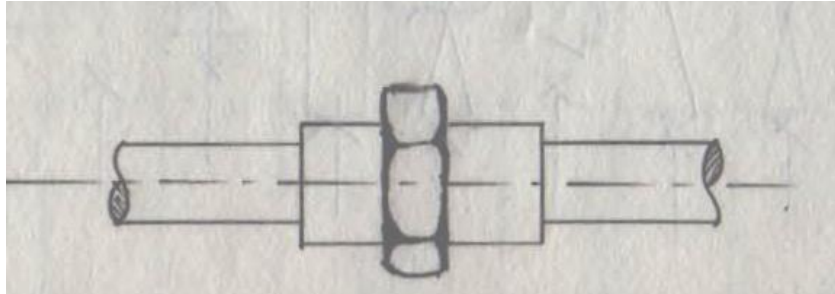
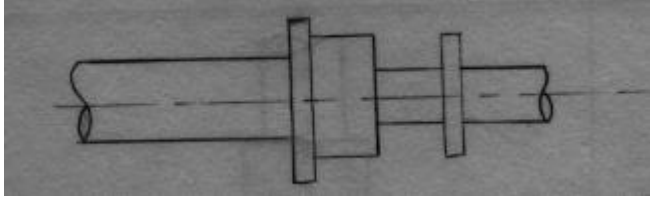
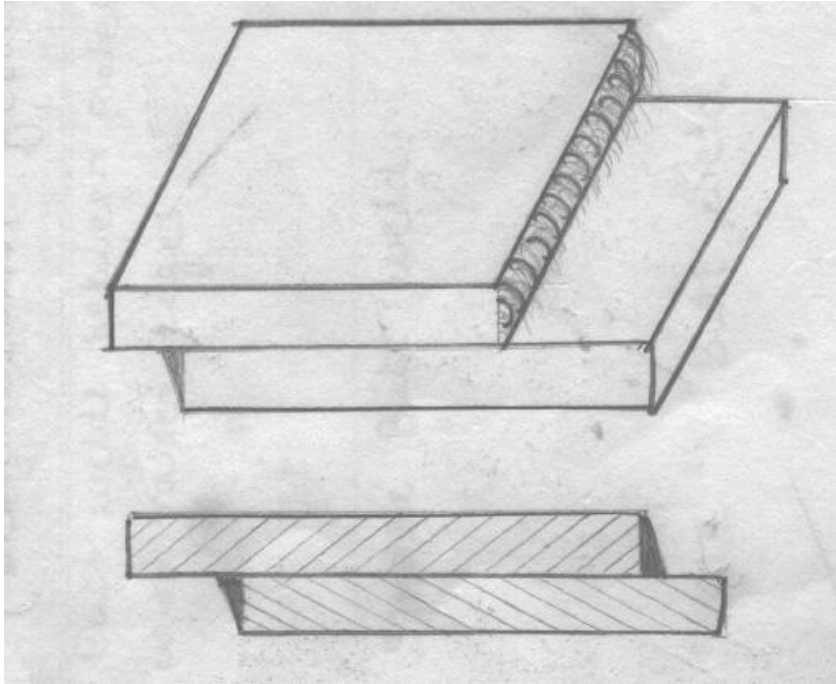
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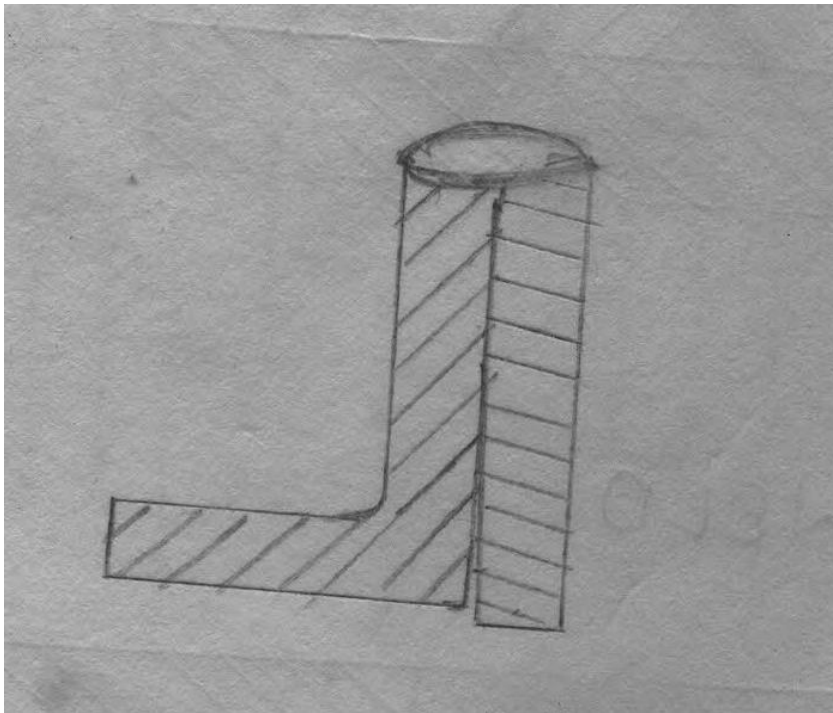
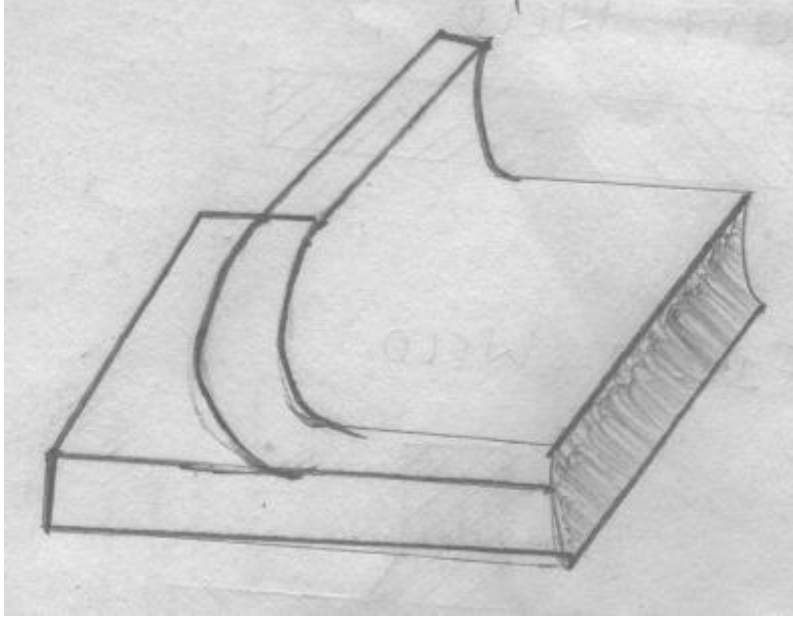
Important Instructions to examiners:

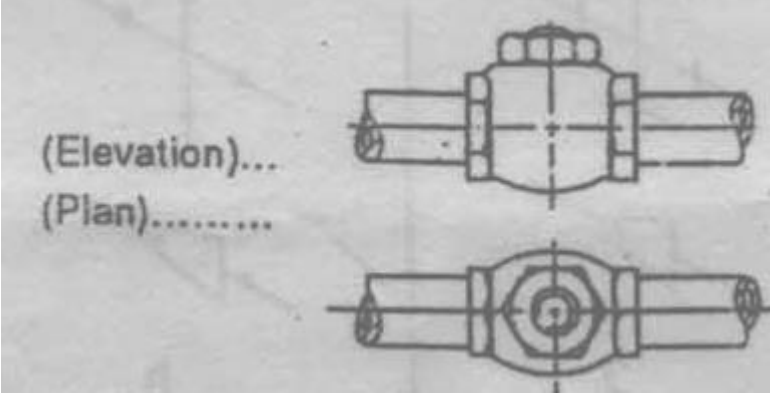
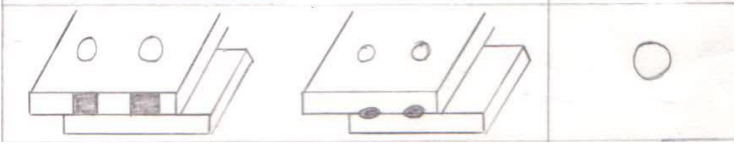
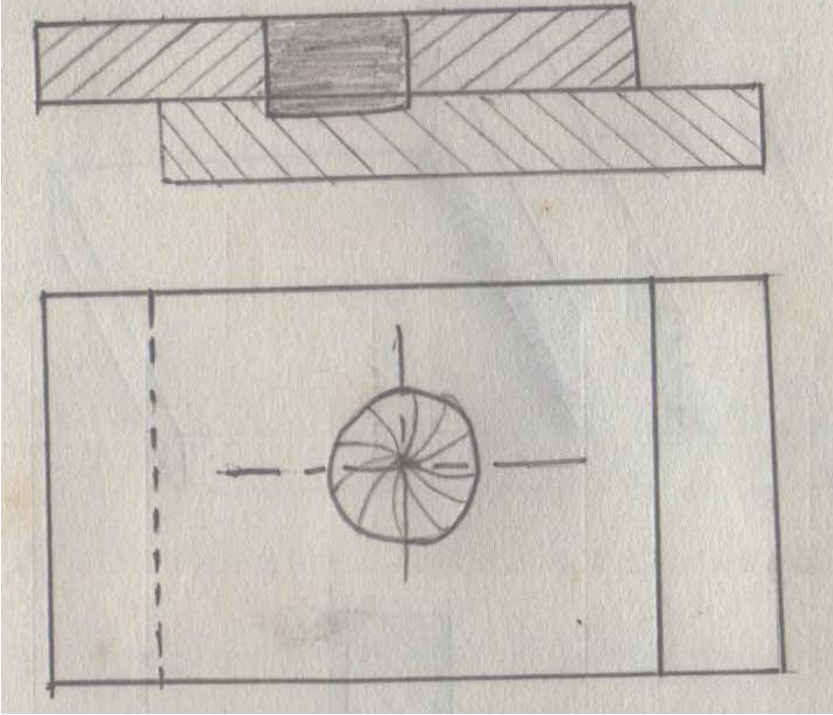
- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling 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 judgment 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.

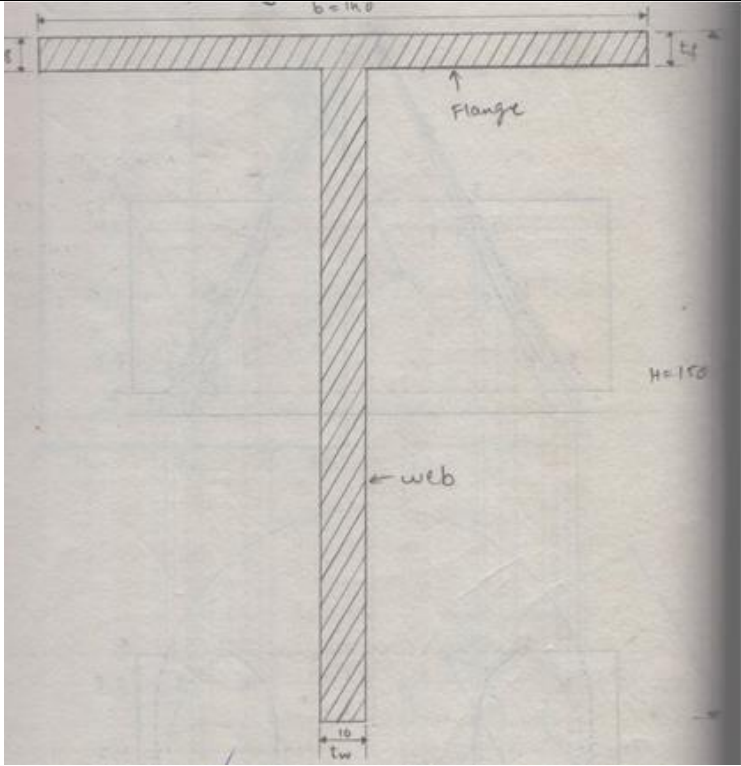
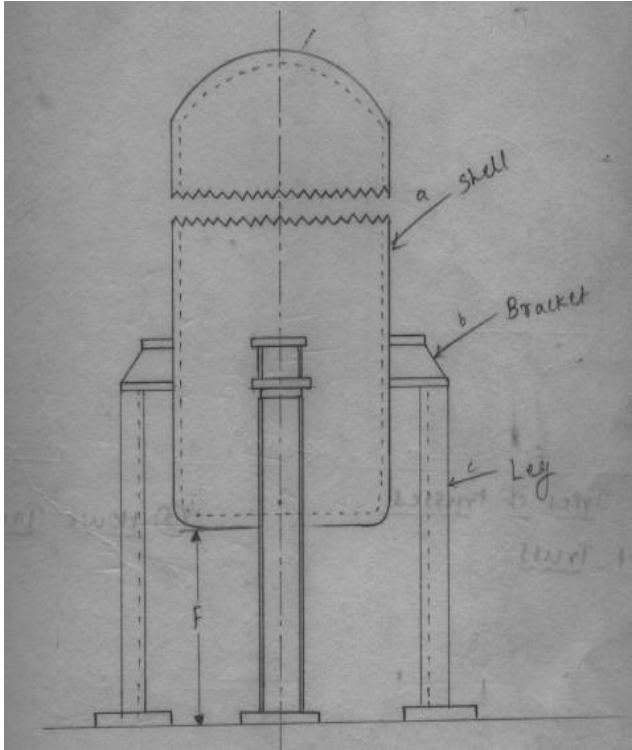


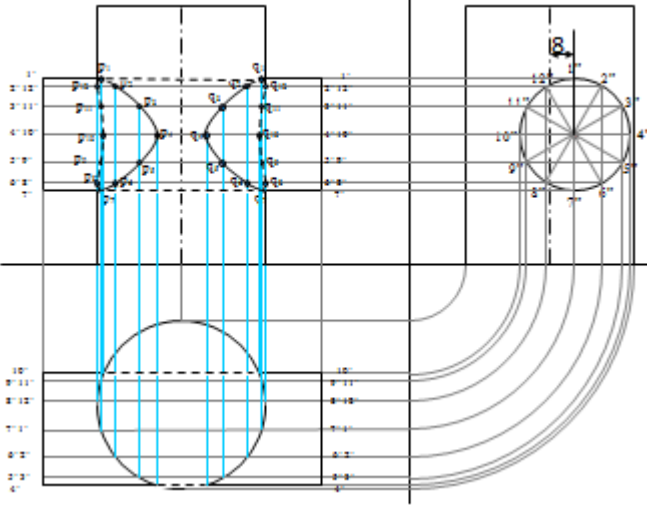
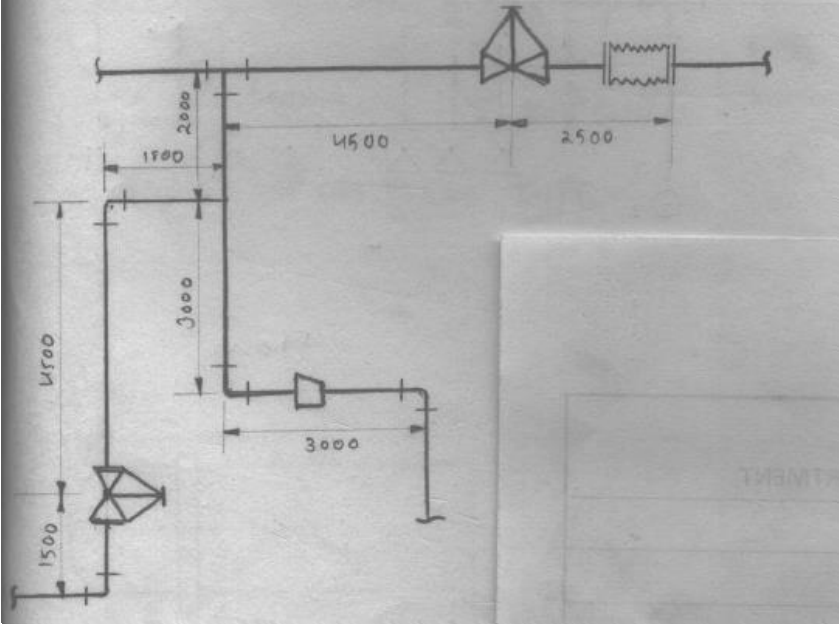
Q. NO	MODEL ANSWER	MARKS	TOTAL MARKS
1.	Attempt any five of the following	5x4	20
1.a i	<p>90° ELBOW</p>  <p>90° Elbow Turned down</p>	1 mark	4 mark
1.a ii	 <p>Tee</p>	1 mark	

<p>1.a iii</p>	<p style="text-align: center;">Union</p> 	<p>1 mark</p>	
<p>1.a iv</p>	<p style="text-align: center;">Reducer</p> 	<p>1 mark</p>	
<p>1.b (i)</p>	<p style="text-align: center;">Lap joint</p> 	<p>2mark</p>	<p>4 mark</p>
<p>1.b (ii)</p>	<p style="text-align: center;">Edge joint</p>	<p>2mark</p>	



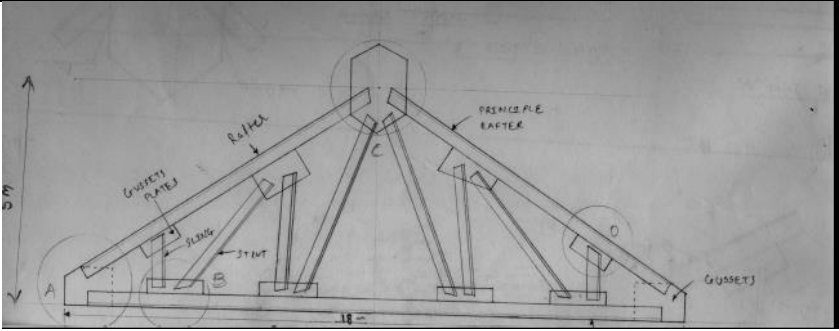
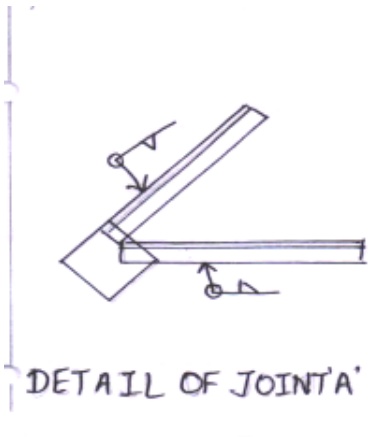
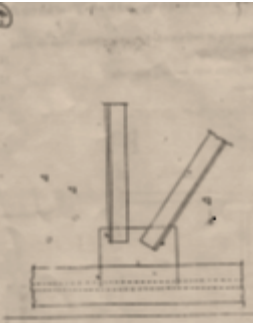
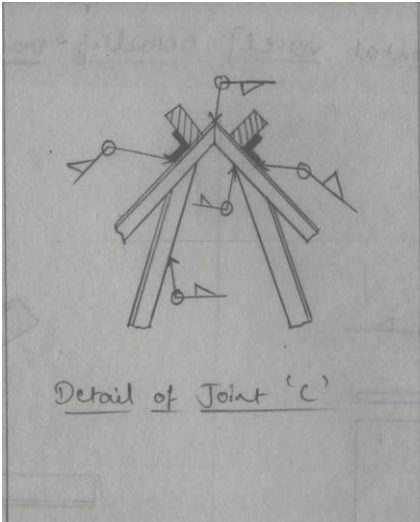
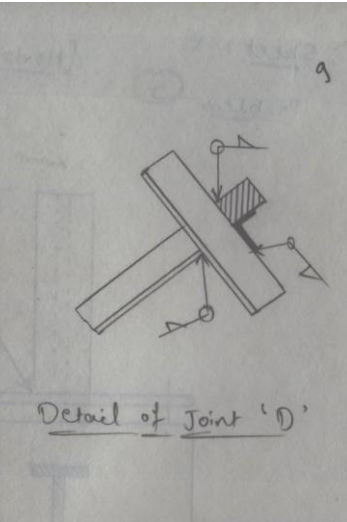
<p>1c.</p>	 <p>DOUBLE LINE Check valve</p>	<p>4mark</p>	<p>4 mark</p>
<p>1.d i</p>	 <p>Spot weld</p>	<p>2mark</p>	<p>4 mark</p>
<p>1.d ii</p>	 <p>Plug weld</p>	<p>2mark</p>	
<p>1.e</p>	<p>ISMT 150 section</p>	<p>3m-drg</p>	<p>4 mark</p>

		<p>1m-dimension</p>	
<p>1.f</p>	<p>Bracket support for vertical vessels</p> 	<p>4 mark</p>	<p>4 mark</p>

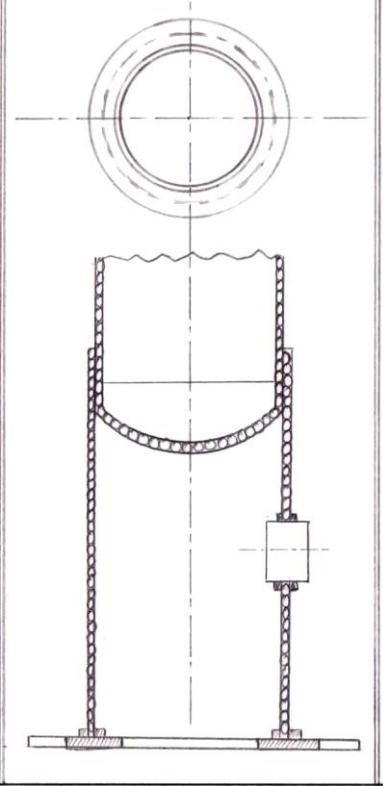
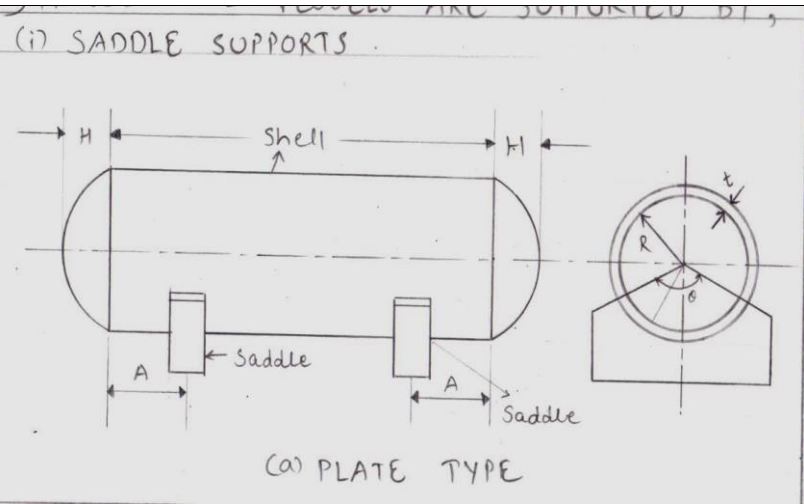
<p>1.g</p>	<p>1.Vertical cylinder is resting on H.P. 2.It is penetrated by horizontal cylinder of diameter 56mm. 3.The axis of the penetrating cylinder is parallel to V.P. and 12mm in front of V.P.</p>	<p>4 mark</p>	<p>4 mark</p>
<p>Q. 2</p>	<p>Attempt any TWO of the following.</p>	<p>2X8</p>	<p>16</p>
<p>2.a</p>		<p>2 mark-F.V 2 mark-T.V 2 mark-S.V 2 mark-INTERSECTION</p>	<p>8 mark</p>
<p>2.b</p>		<p>6mark-LAYOUT 2mark-DIMENSION</p>	<p>8mark</p>

<p>2.c</p>	<p>VERTICAL VESSEL</p>	<p>3 mark-T.V</p> <p>3 mark-F.V</p> <p>2 mark- WELDING SYMBOLS</p>	<p>8mark</p>
<p>Q. 3</p>	<p>Attempt any TWO of the following.</p>	<p>2X8</p>	<p>16</p>

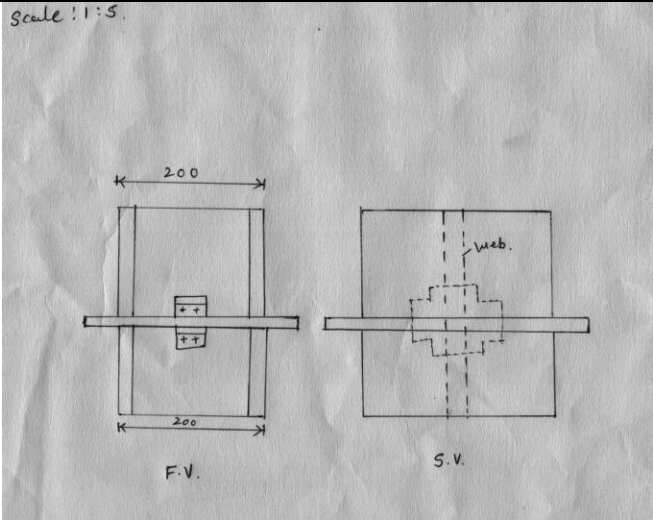
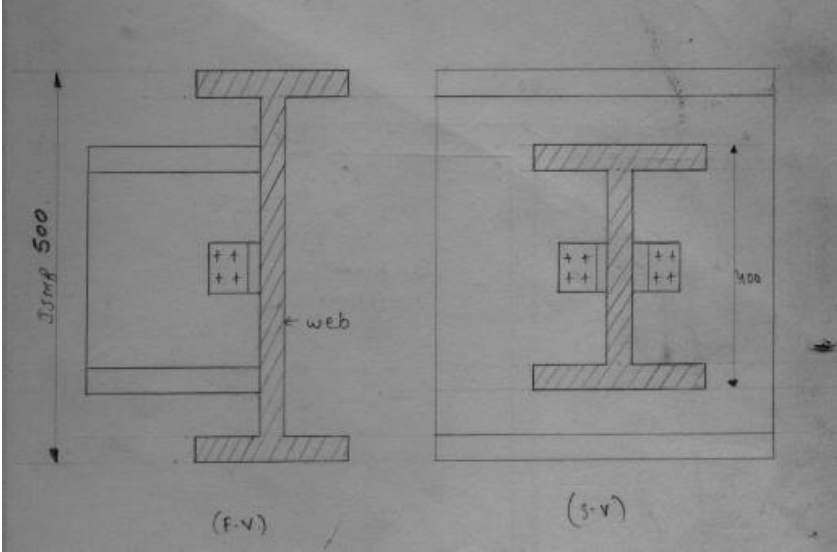
<p>3.a</p>		<p>2 mark-T.V 2 mark-F.V 2 mark-WELDING SYMBOLS 2 mark-DIMENSION</p>	<p>8 mark</p>
<p>3.b</p>	<p>Scale 1:5</p> <p>ISLB 350</p> <p>ISMC 200</p> <p>200</p> <p>350</p> <p>(F.V)</p> <p>(S.V)</p>	<p>4mark-S.V 4 mark-F.V</p>	<p>8mark</p>

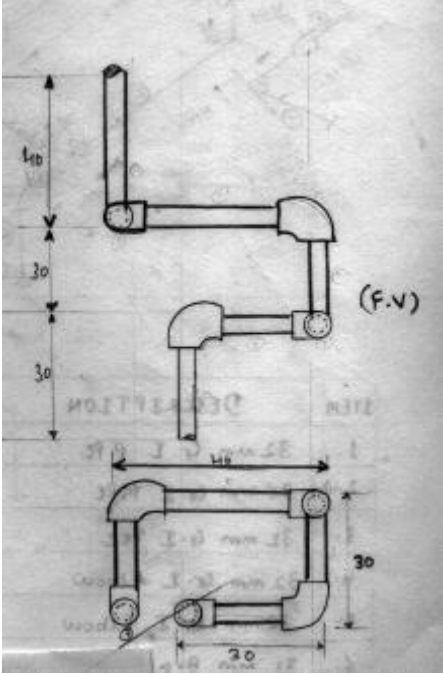
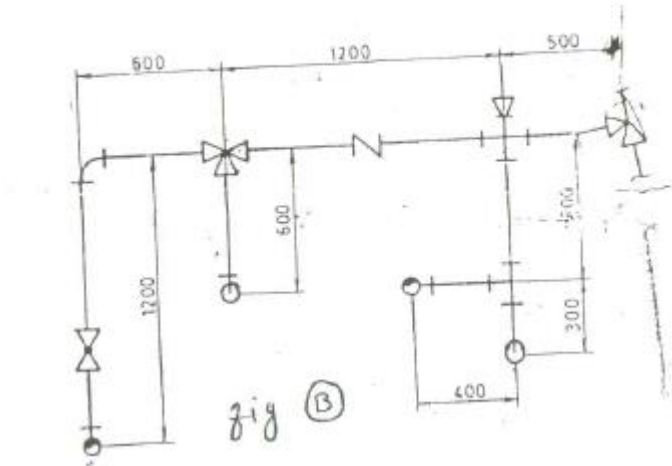
<p>3.C</p>	 <p>PRATT TRUSS</p>  <p>DETAIL OF JOINT 'A'</p>  <p>Detail of joint B</p>  <p>Detail of Joint 'C'</p>  <p>Detail of Joint 'D'</p>	<p>4 mark-PRATT TRUSS</p> <p>2 mark-welding joint symbolically</p> <p>(ANY 2)</p>	<p>8 mark</p>
<p>Q. 4</p>	<p>Attempt any TWO of the following.</p>	<p>2X8</p>	<p>16</p>

<p>4.a i</p>		<p>4 mark</p>	<p>4 mark</p>
<p>4.a ii (i)</p>	<p>or</p> <p>Rivet fitted in the workshop with countersunk on one side only.</p>	<p>2 mark</p>	<p>4mark</p>
<p>4.a ii (ii)</p>	<p>Rivet fitted on site without countersinking.</p>	<p>2 mark</p>	
<p>4.b</p>		<p>4 mark-F.V 4 mark-S.V</p>	<p>8 mark</p>

<p>4.c i</p>	<p>(a) STRAIGHT SKIRT</p>  <p>Straight skirt support</p>	<p>4 mark</p>	<p>8mark</p>
<p>4.c ii</p>	<p>(i) SADDLE SUPPORTS</p>  <p>(a) PLATE TYPE</p>	<p>2 mark-PLATE TYPE 2 mark-RING TYPE</p>	

	<p align="center">Ring Type</p>		
<p>Q. 5</p>	<p>Attempt any TWO of the following.</p>	<p>2X16</p>	<p>32</p>
<p>5a</p>		<p>6 mark-T.V 6 mark-F.V 4 mark-S.V</p>	<p>16 mark</p>

<p>5.b i</p>	<p>Scale: 1:5.</p>  <p>Neat proportionate sketches when a column ISLB 200 is connected to similar column.</p>	<p>4 mark-F.V 4 mark-S.V</p>	<p>8mark</p>
<p>5.b ii</p>	<p>BEAM TO BEAM CONNECTION</p> 	<p>4 mark-F.V 4 mark-S.V</p>	<p>8mark</p>

<p>5.c i</p>	 <p>DOUBL LINE ORTHOGRAPGIC VIEW.</p>	<p>4 mark-F.V 4 mark-T.V</p>	<p>8mark</p>
<p>5.c ii</p>	<p>SINGLE LINE ORTHOGRAOHIC VIEW</p> 	<p>8mark</p>	<p>8mark</p>

