



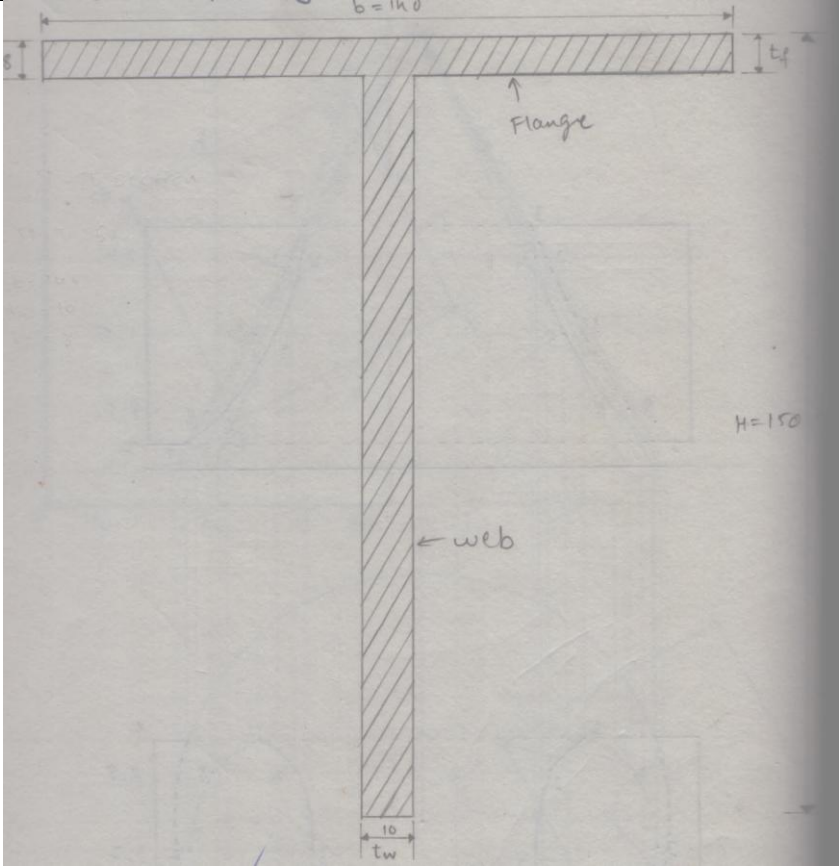
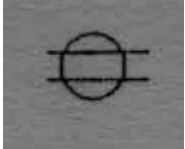
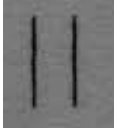
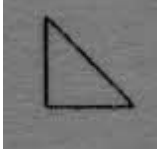
WINTER – 14 EXAMINATIONS

Subject Code: **17328** **Model Answer** Page No: ____ / N


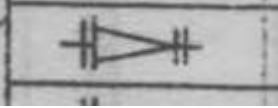
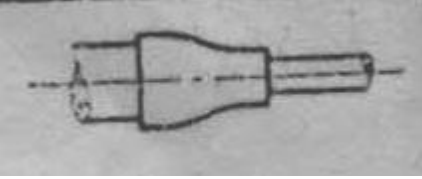
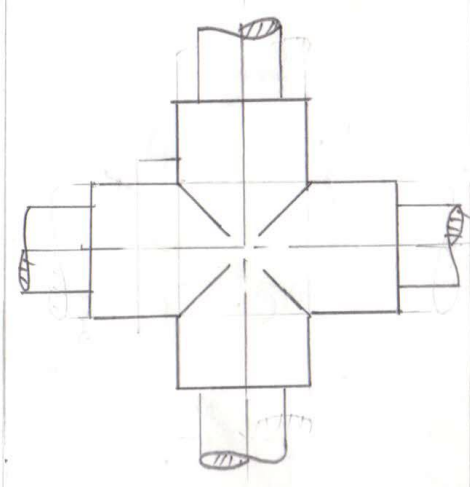


Important Instructions to examiners:

- 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.

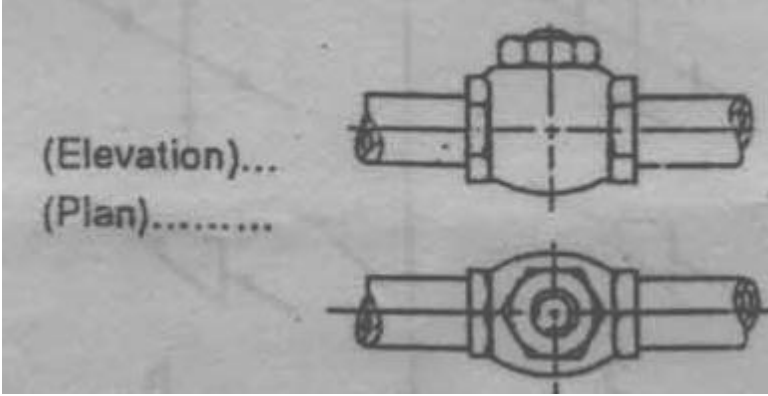
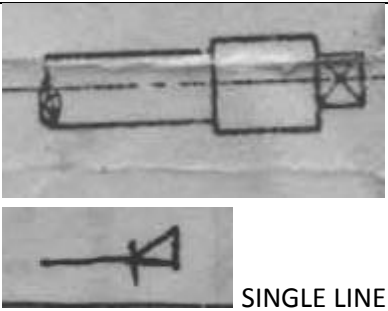
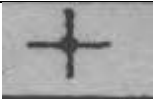
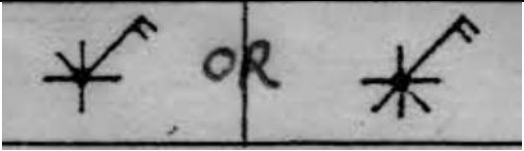


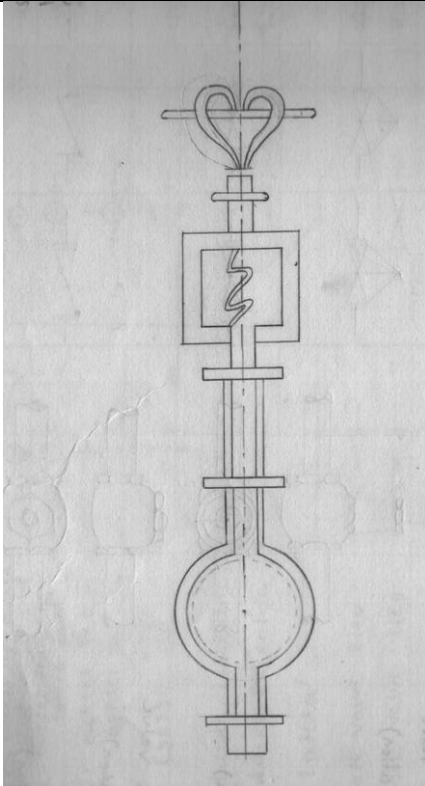
Q. NO.	MODEL ANSWER	MARKS	TOTAL MARKS
1	Attempt any five		20
a)		3m-drg 1m-dimension	4 mark
b)(i)	 Seam weld	1 m	4 mark
(ii)	 Square butt weld	1 m	
(iii)	 Fillet weld.	1 m	



(iv)	 Plug weld	1 m	
c)(i)	 single line  Double line` Reducing socket	1m	4 mark
(ii)	 DOUBLE LINE  SINGLE LINE cross	1m	
(iii)	 SINGLE LINE CHECK VALVE	1m	

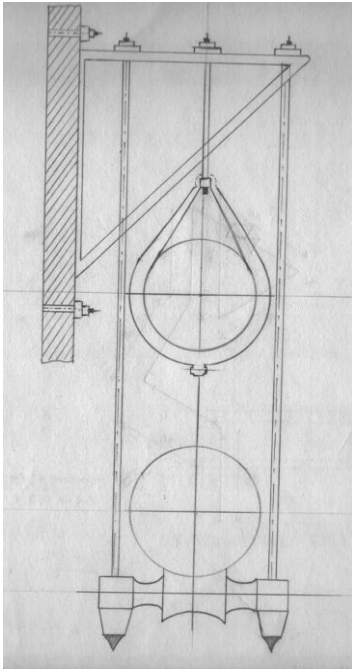


	 <p>(Elevation)...</p> <p>(Plan).....</p> <p>DOUBLE LINE Check valve</p>		
(iv)	 <p>DOUBLE LINE</p> <p>SINGLE LINE</p> <p>PLUG</p>	1m	
d)(i)	 <p>Rivet fitted in workshop without countersunk</p>	2m	4 mark
(ii)	 <p>Note: Any one only. Rivet with countersunk on one side ,fitted on site and hole drilled on site.</p>	2m	
e)	<p>Note : any one hanger either spring or bracket hanger.</p>	4m	4m



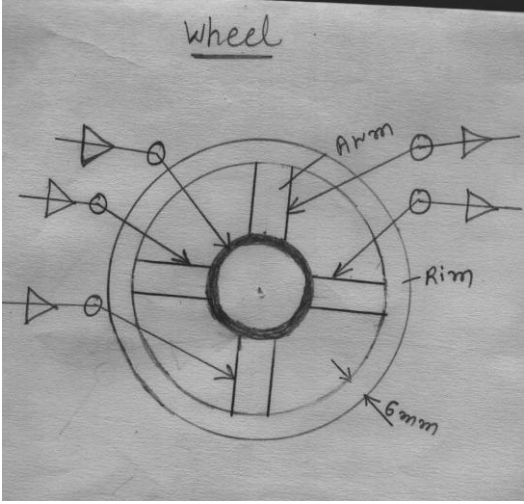
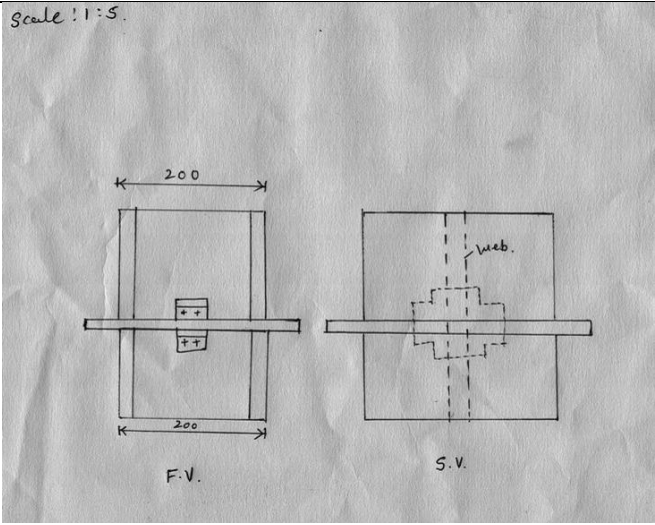
Spring hanger

Note : any one hanger either spring or bracket hanger.



Bracket supported hanger

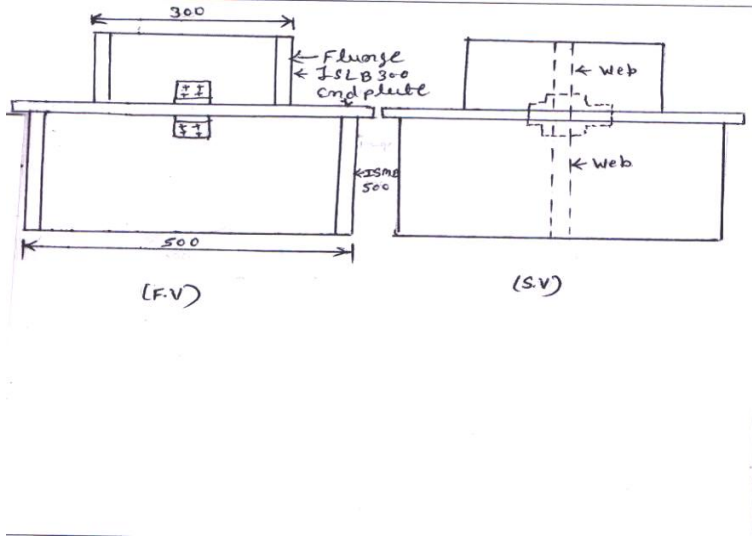
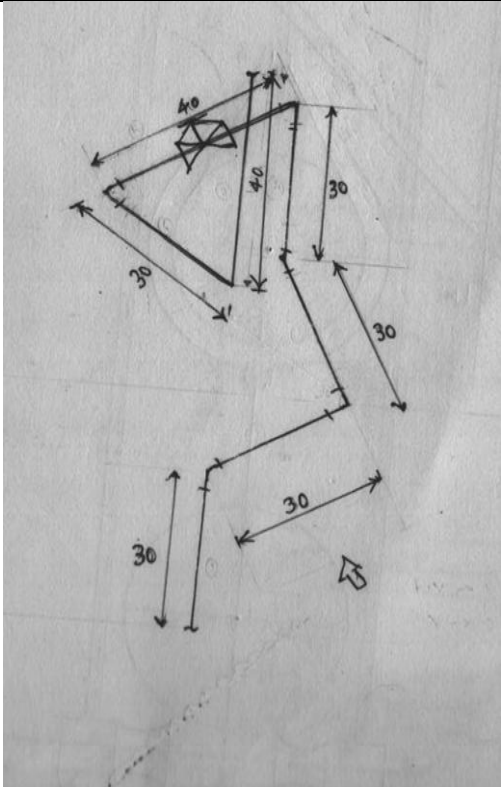


f)		4 mark - Any 4 welding symbol	4m
g)	<p>Scale : 1:5.</p>  <p>F.V.</p> <p>S.V.</p>	2m-F.V 2m- S.V	4m
2	Attempt any two		16 m



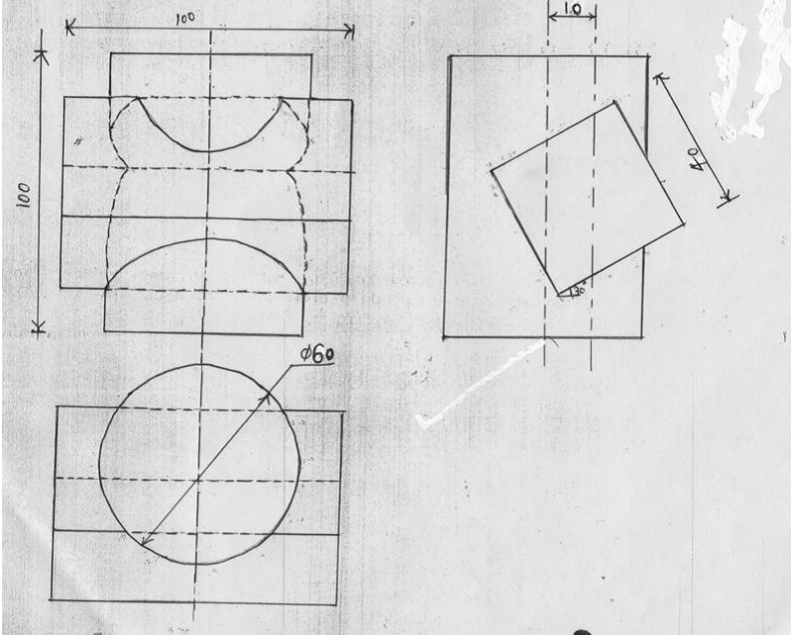
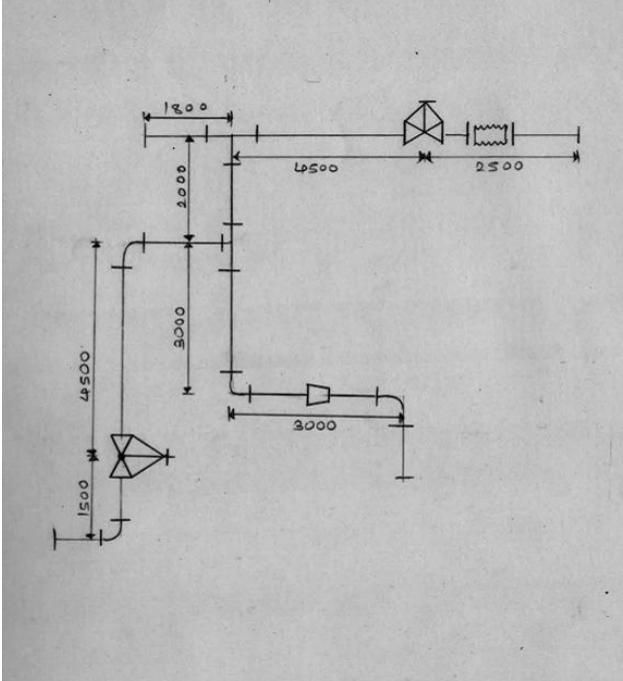
<p>a)</p>		<p>4m-F.V 2m- S.V 2m- T.V</p>	<p>8 m</p>
<p>b)</p>	<p>VERTICAL VESSEL</p>	<p>3m-F.V 3m- T.V 2m- WELDING SYMBOL</p>	<p>8 M</p>



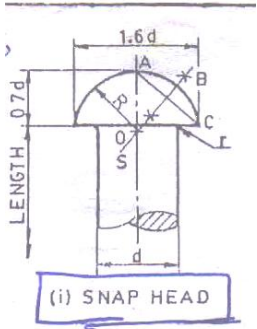
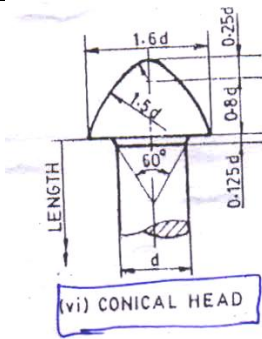
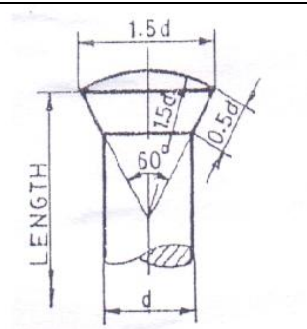
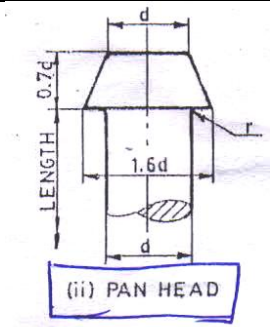
c)		4m-F.V 4m- S.V	8 M
3	Attempt any two		16M
a)		6m- isometric view 2m- dim	8 M

<p>b)</p>	<p style="text-align: center;"> $t = 16, p = 72, t_2 = 10, d = 24, pt = 54, l = 252$ </p> <p style="text-align: center;">Fig. B3.15 Double riveted double strap joint (Chain type)</p>	<p>4m-F.V 4m- T.V</p>	<p>8 M</p>
<p>c)</p>		<p>3m-F.V 3m- T.V 2m- S.V</p>	<p>8 M</p>

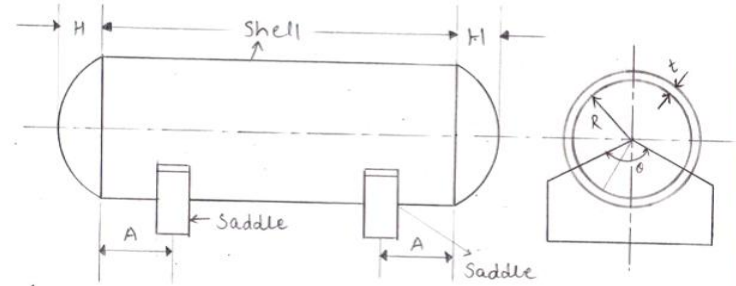
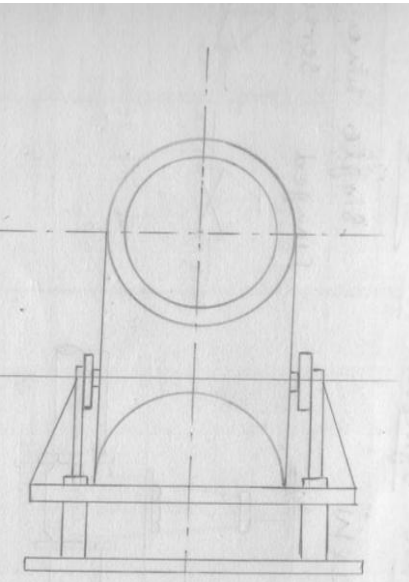


4	Attempt any two		16M
a)		3m-F.V 2m- T.V 3m- S.V	8M
b)	 <p>SINGLE LINE DEVELOPED ORTHOGRAPHIC VIEW.</p>	6M- Diagram 2m- Dimension	8M

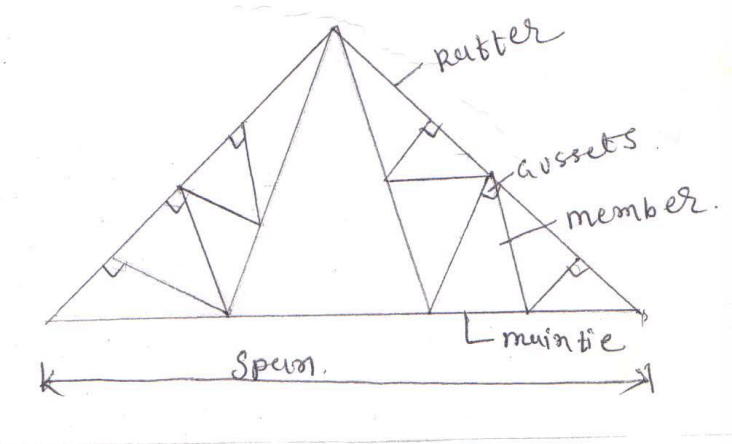
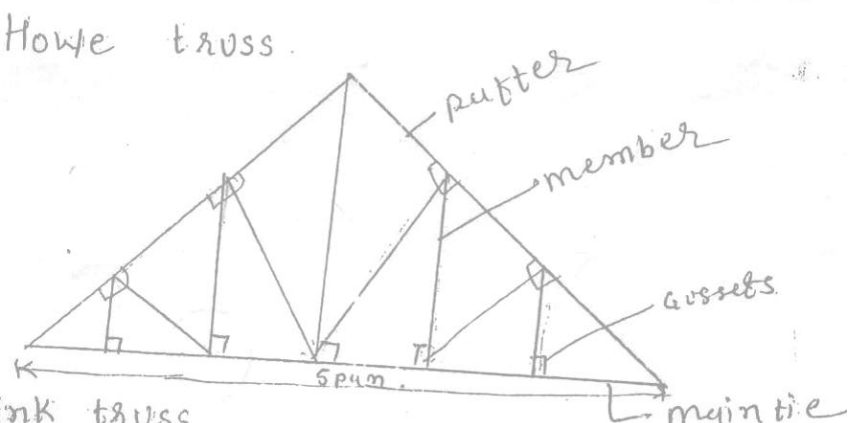
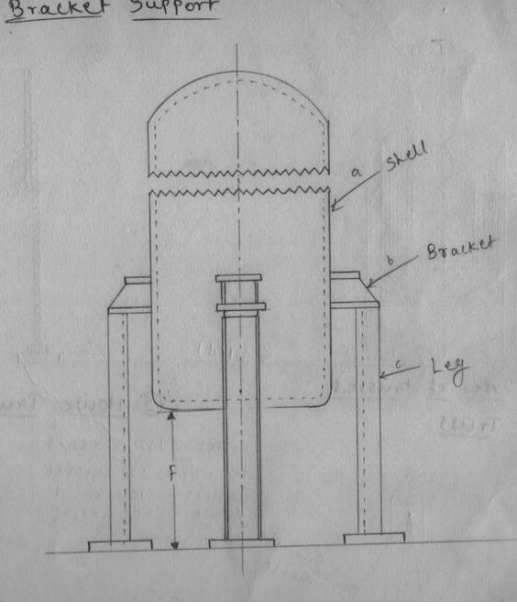


c)(i)	 <p>(i) SNAP HEAD</p>	2m	8m
c)(ii)	 <p>(vi) CONICAL HEAD</p>	2m	
c)(ii)	 <p>vi) ROUNDED COUNTER-SUNK HEAD</p>	2m	
c)(i)	 <p>(ii) PAN HEAD</p>	2m	



5	Attempt any two		16m
a)	<p>(i) SADDLE SUPPORTS</p>  <p>(ii) PLATE TYPE</p>  <p>ADJUSTABLE ROLL SUPPORT</p>	4m-saddle support 4m- roller support	8m



b)(i))	 <p style="text-align: center;">Fink Truss</p>	4 m	8m
(ii)	<p>Howe truss.</p>  <p style="text-align: center;">Howe Truss</p>	4m	
c)(i)	<p><u>Bracket Support</u></p> 	4m	8m



(ii)	<p>i) COLUMN SUPPORT</p>	4m	
6	Attempt any one		16m
a)	<p>Horizontal tank</p>	<p>4m-F.v 4m-S.v (8m tank) 2m for each detailing. (any four detailing) (8m-detailing)</p>	16m



	<p>Detailing of A,B,C,D,E of HORIZONTAL TANK</p>		
b)	<p>DETAIL OF JOINT 'A' DETAIL OF JOINT 'B'</p>	4 m for each detail	16 m

