



SUMMER – 16 EXAMINATIONS

Subject Code: 17328

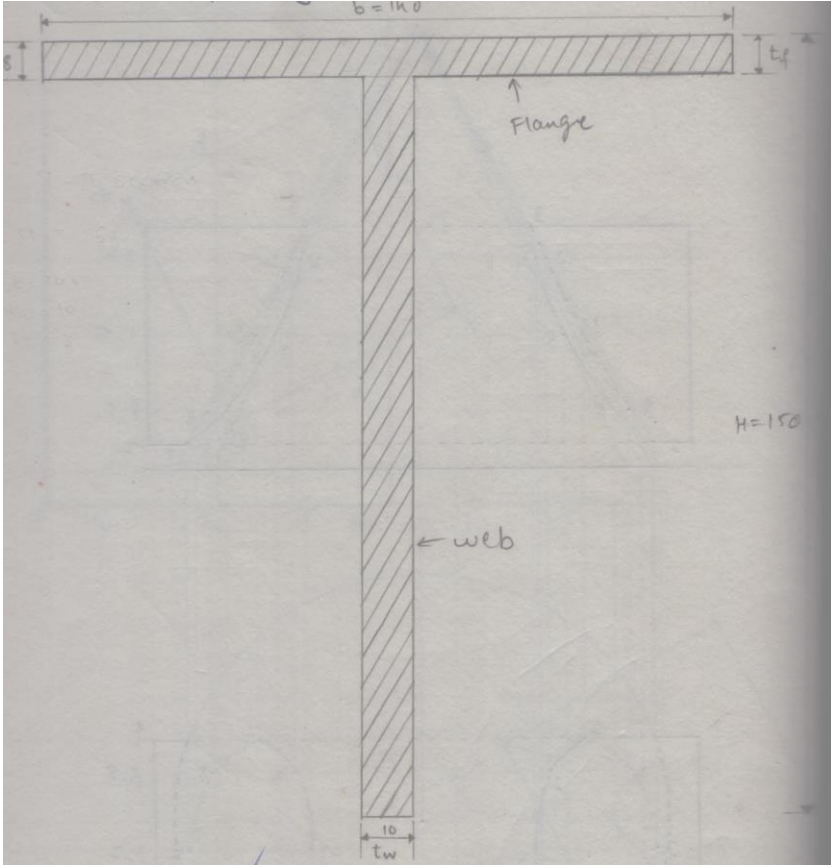
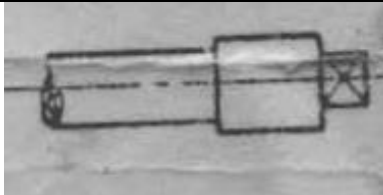
Model Answer


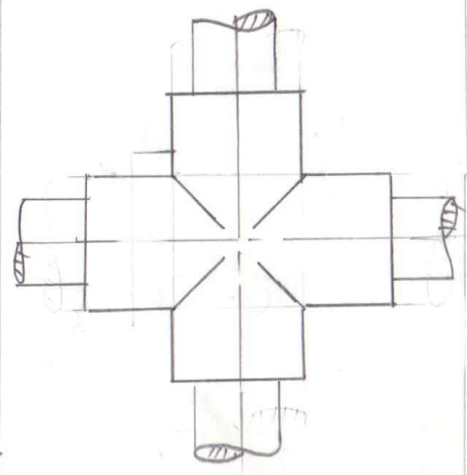

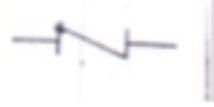
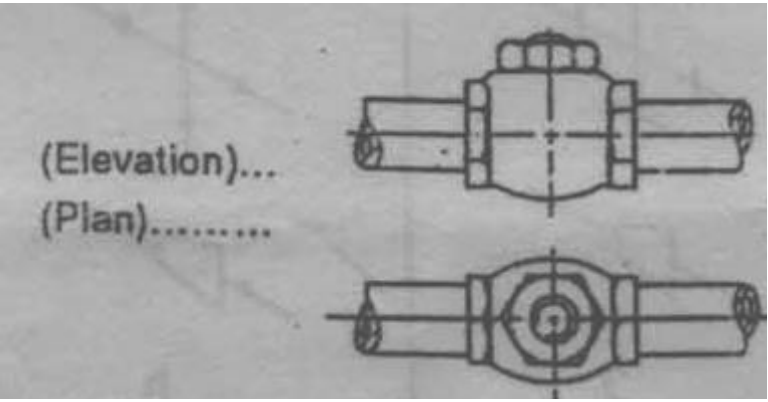
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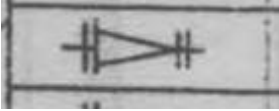
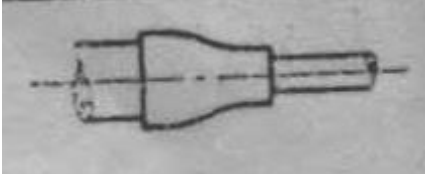
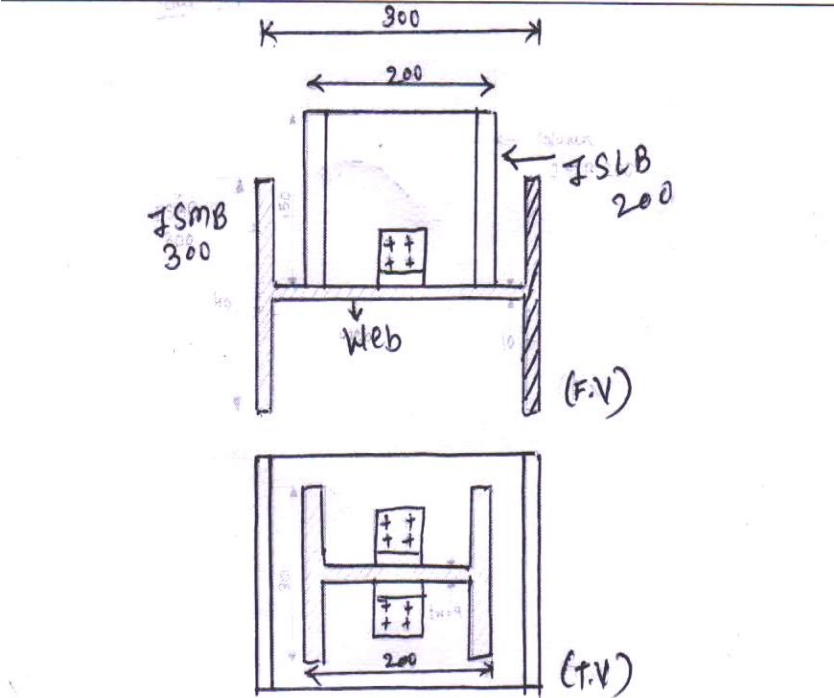
Important Instructions to examiners:

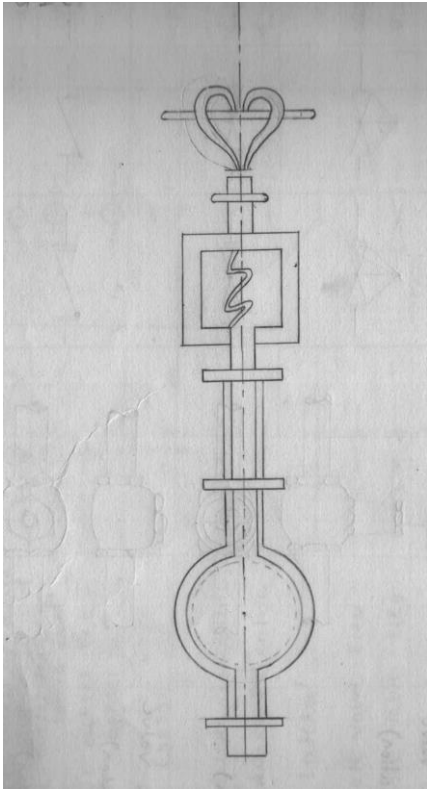
- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling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



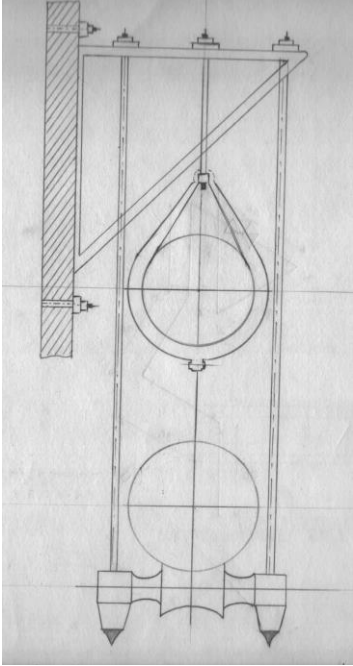
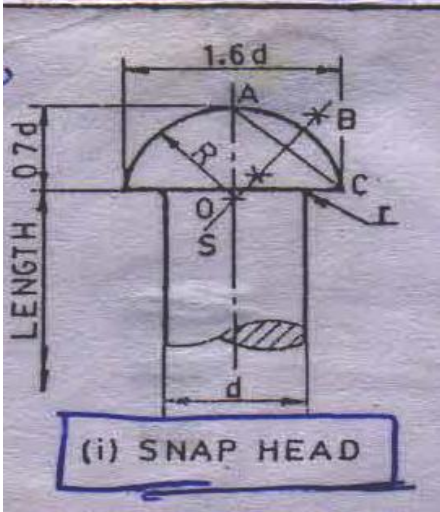
Q. NO.	MODEL ANSWER	MARKS	TOTAL MARKS
1.	Attempt any five of the following.	5x4	20
1.a	<p>IST SECTION</p> 	3m-Drg 1m-dimension	4 mark
1.b (i)	 <p>DOUBLE LINE PLUG</p>	1/2m-SINGLE LINE 1/2m - DOUBLE LINE	4 mark

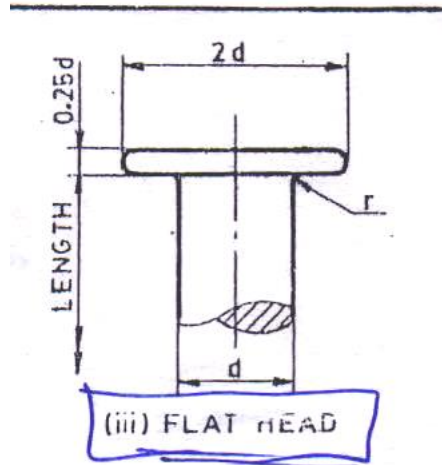
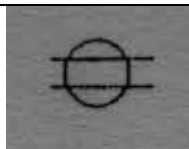
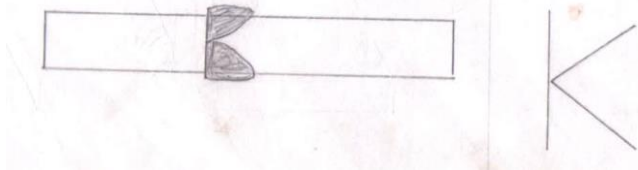
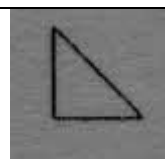
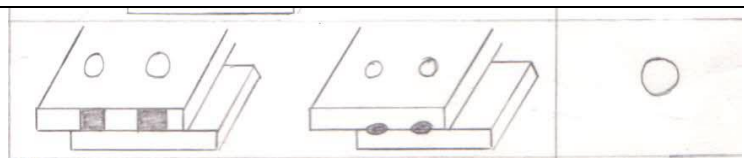
	 <p align="center">SINGLE LINE PLUG</p>		
(ii)	 <p align="center">Double line cross</p>  <p align="center">Single line cross</p>	<p>1/2m-SINGLE LINE</p> <p>1/2m - DOUBLE LINE</p>	
(iii)	 <p align="center">SINGLE LINE CHECK VALVE</p>  <p align="center">DOUBLE LINE Check valve</p>	<p>1/2m-SINGLE LINE</p> <p>1/2m - DOUBLE LINE</p>	

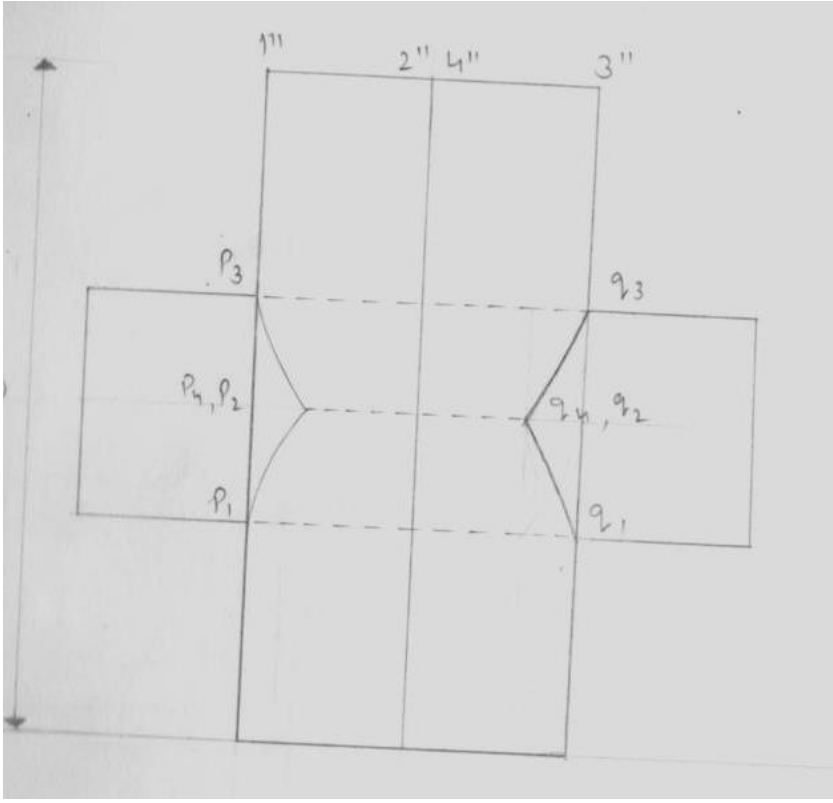
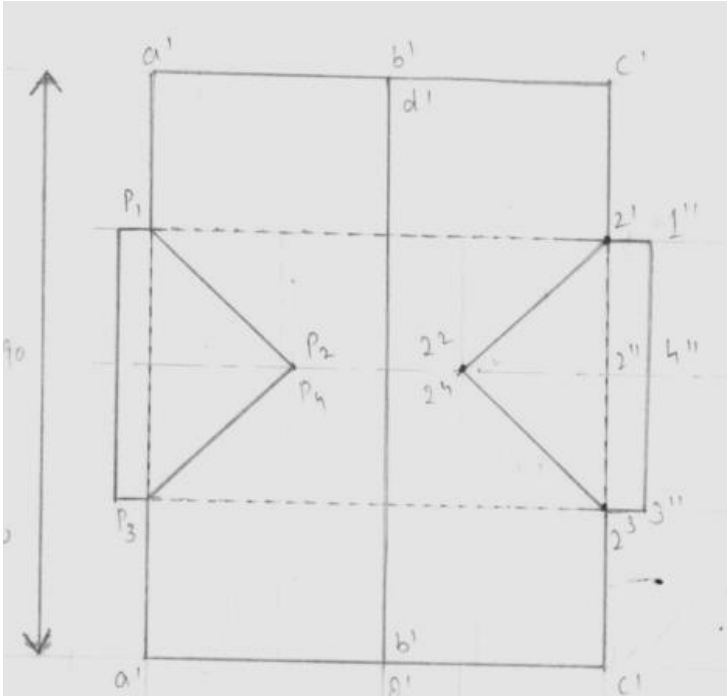
(iv)	 <p>single line</p>  <p>Double line</p> <p>Reducing socket</p>	<p>1/2m-SINGLE LINE</p> <p>1/2m - DOUBLE LINE</p>	
1c.		<p>2 mark-F.V</p> <p>2mark-T.V</p>	4 MARK

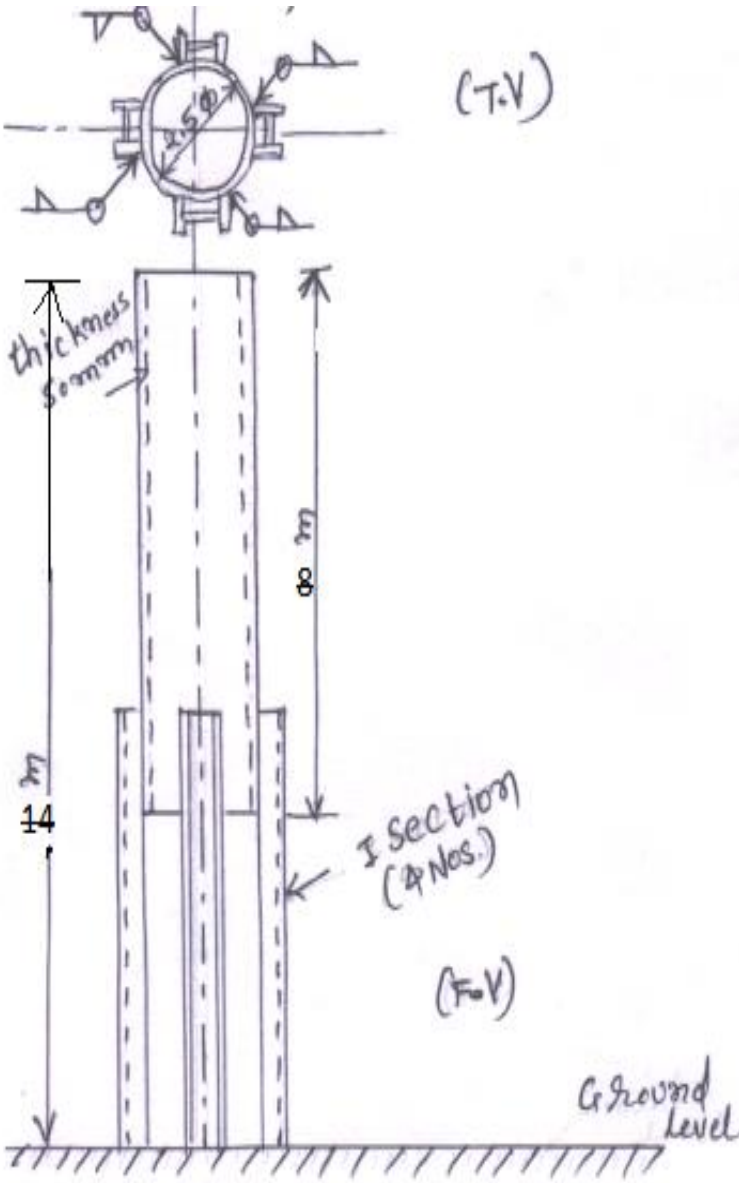
1.d	<p data-bbox="362 262 1000 296">Note: any one hanger either spring or bracket hanger.</p> 	4mark	4mark
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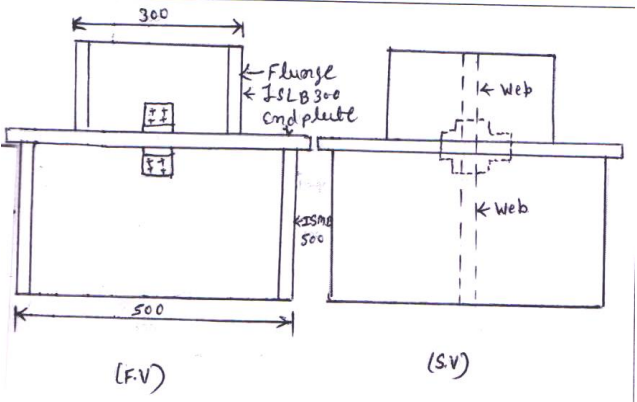
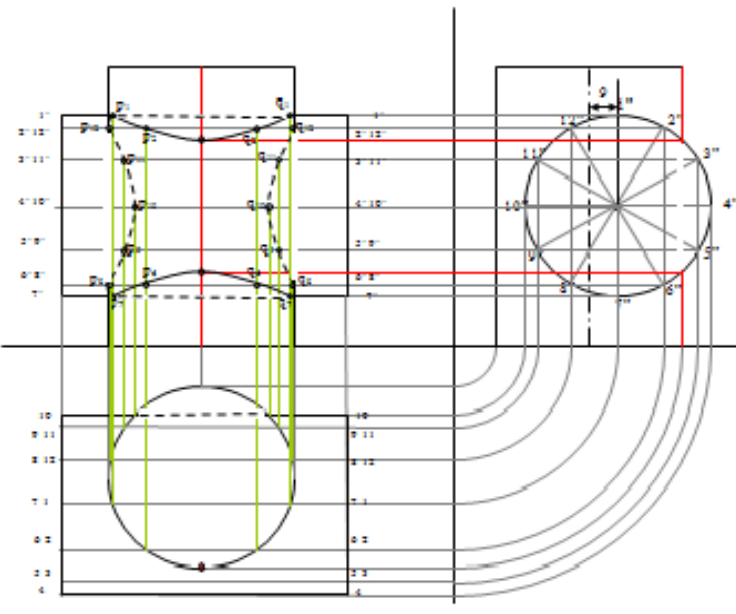
Spring hanger

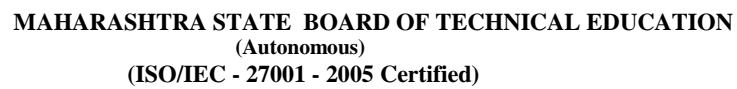
	 <p>Bracket supported hanger</p>		
1.e (i)	 <p>(i) SNAP HEAD</p>	2mark	4 MARK

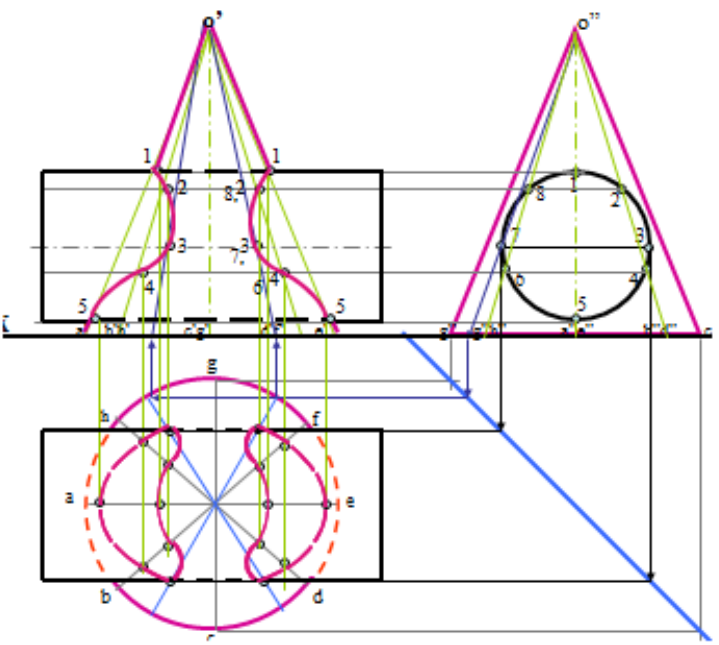
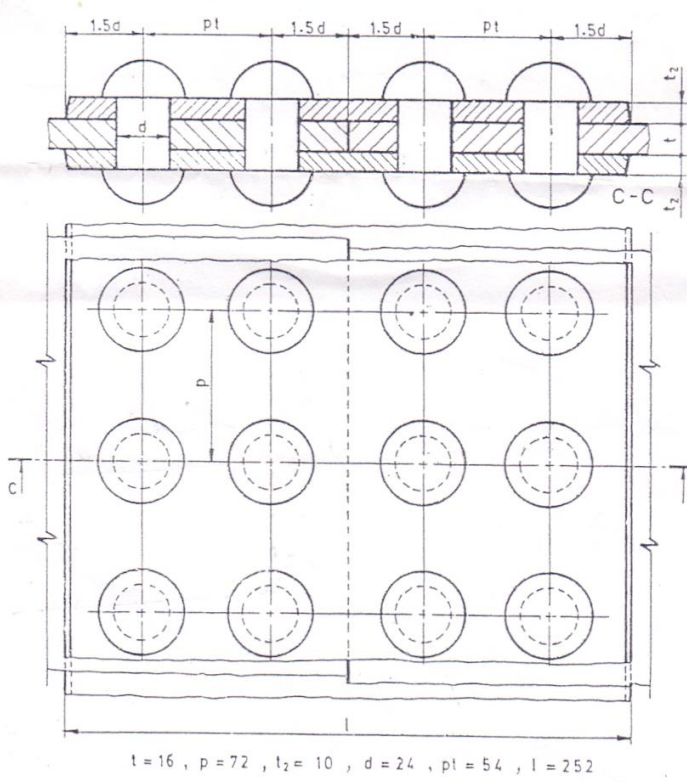
1.e (ii)		2 mark	
1.f (i)	 Seam weld	1 mark	4 mark
1.f (ii)	 Double Bevel Butt joint	1mark	
1.f (iii)	 Fillet weld.	1 mark	
1.f (iv)	 Spot weld	1mark	

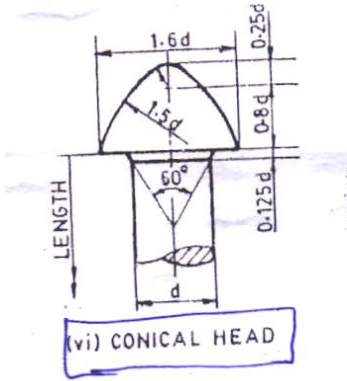
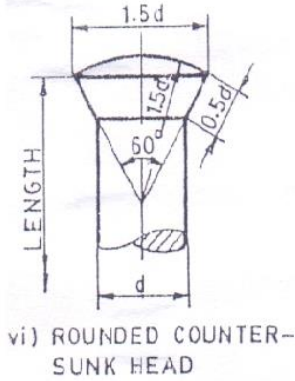
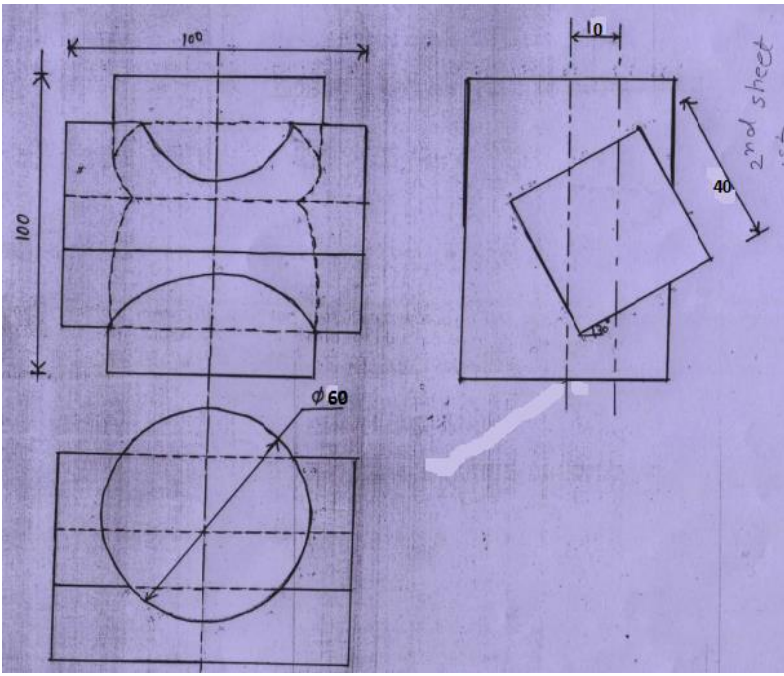
<p>1.g (i)</p>	<p style="text-align: center;">Prism to cylinder:---Curve of intersection</p> 	<p style="text-align: center;">2mark</p>	<p style="text-align: center;">4mark</p>
<p>1.g (ii)</p>	<p style="text-align: center;">Prism to prism :-----Line of intersection</p> 	<p style="text-align: center;">2mark</p>	

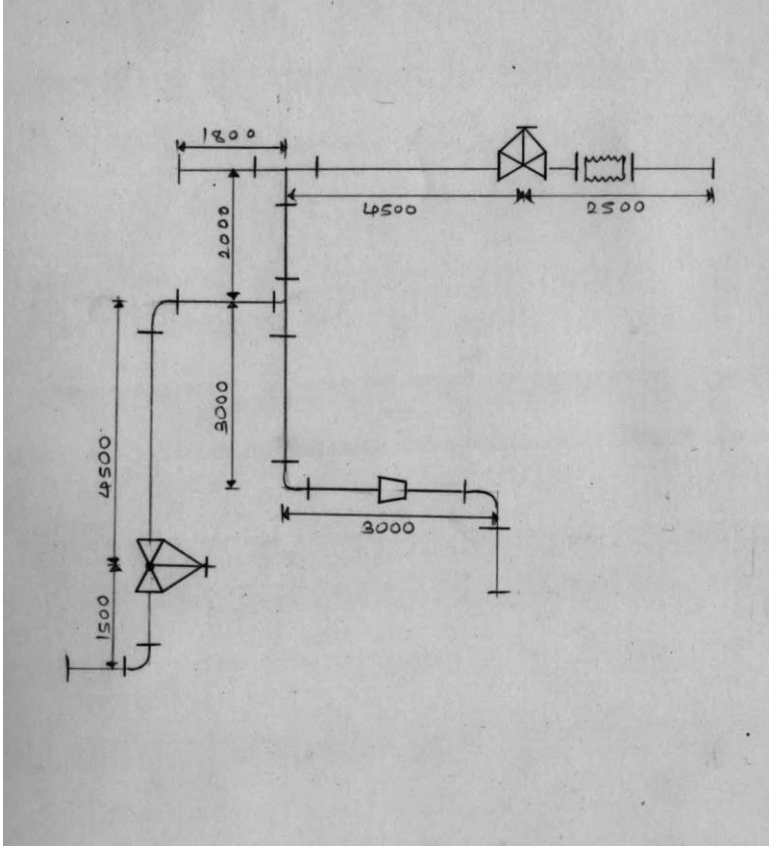
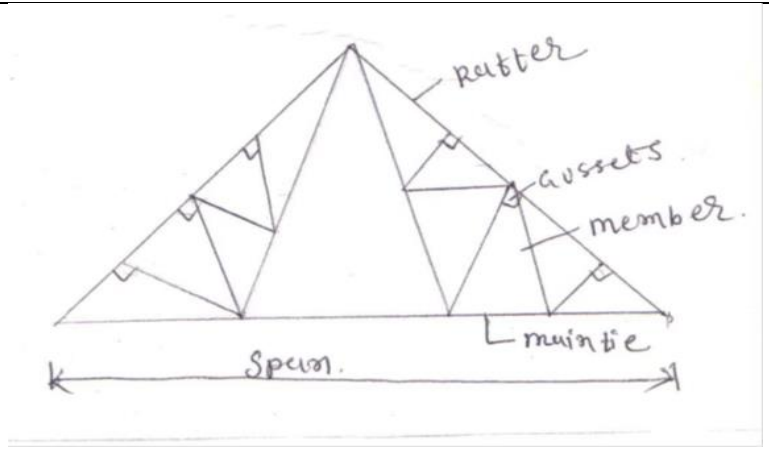
Q.2	Attempt any TWO of the following.	2X8	16
2.a	 <p>(T.V)</p> <p>thickness 8 mm</p> <p>14</p> <p>80</p> <p>I section (4 Nos.)</p> <p>(F.V)</p> <p>Ground level</p>	<p>4 mark- F.V</p> <p>4 mark- T.V</p>	8 mark

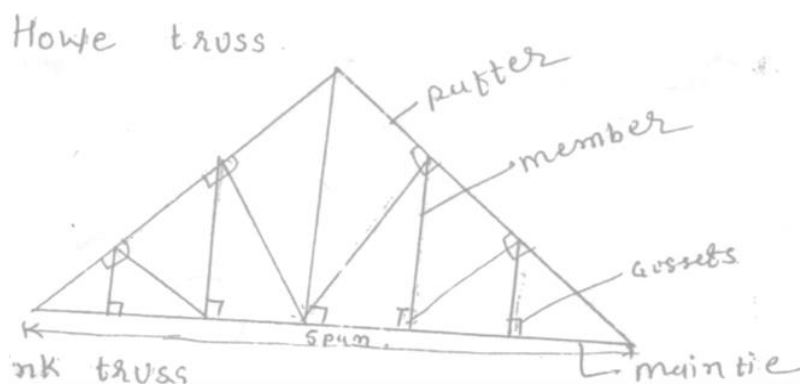
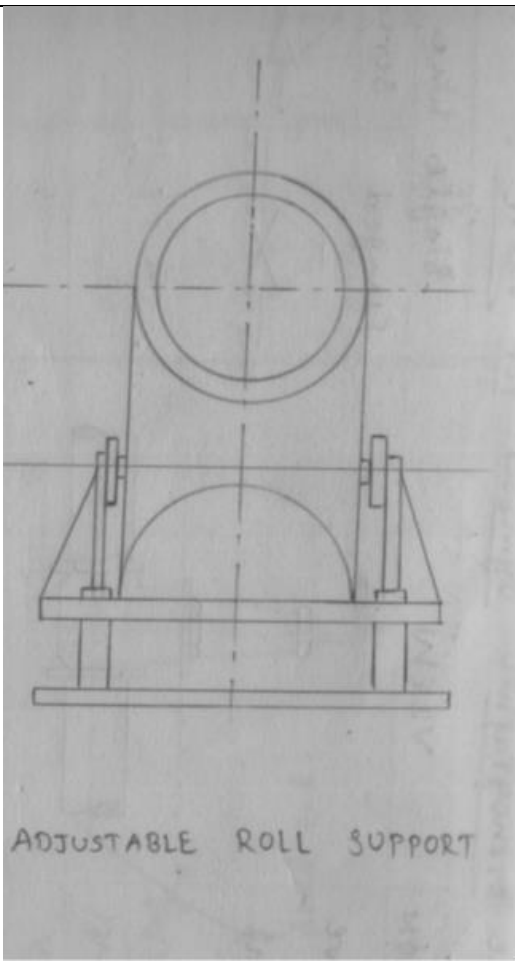
<p>2.b</p>		<p>4 mark-F.V 4 mark-S.V</p>	<p>8 mark</p>
<p>2.c</p>		<p>4m-F.V 2m- S.V 2m- T.V</p>	<p>8 m</p>

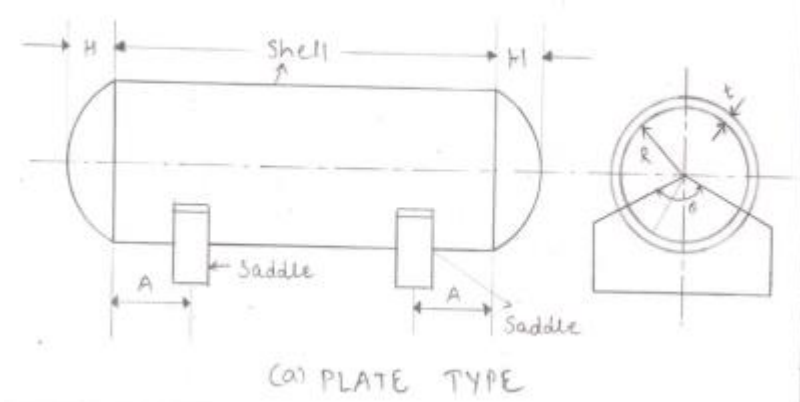
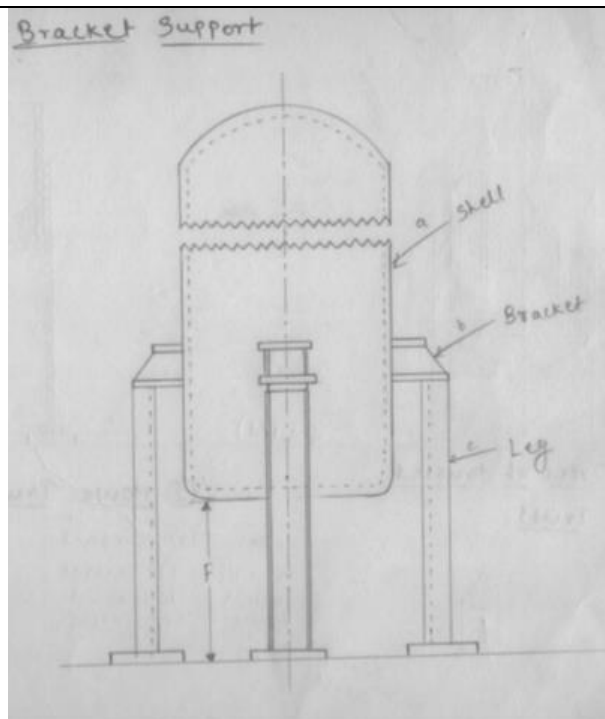
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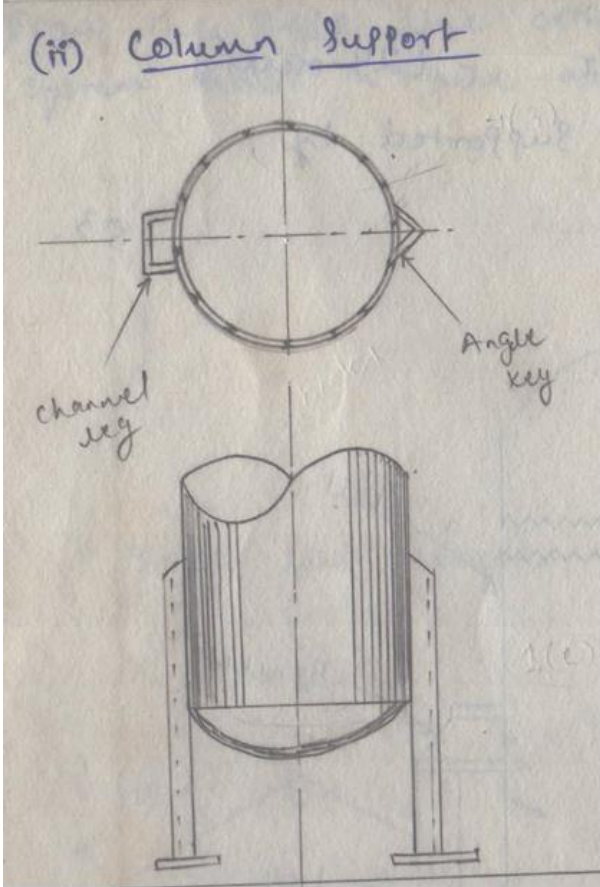
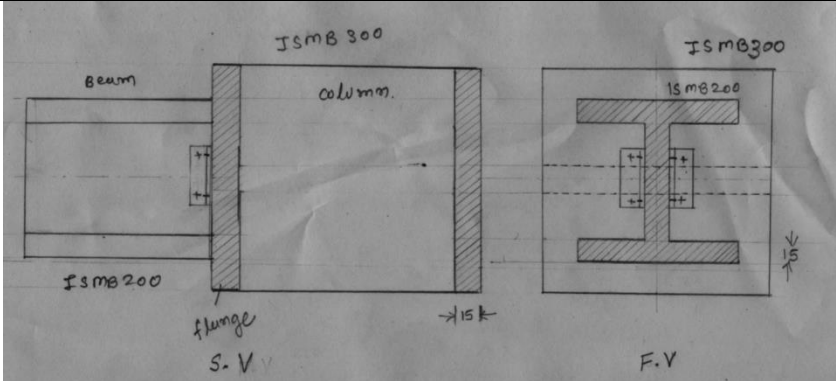
<p>3.b.</p>		<p>3mark-F.V 3mark- T.V 2mark- S.V</p>	<p>8 Mark</p>
<p>3.C</p>	 <p>$t = 16$, $p = 72$, $t_2 = 10$, $d = 24$, $pt = 54$, $l = 252$</p> <p>Fig. B3.15 Double riveted double strap joint (Chain type)</p>	<p>4mark-F.V 4mark- T.V</p>	<p>8 M</p>

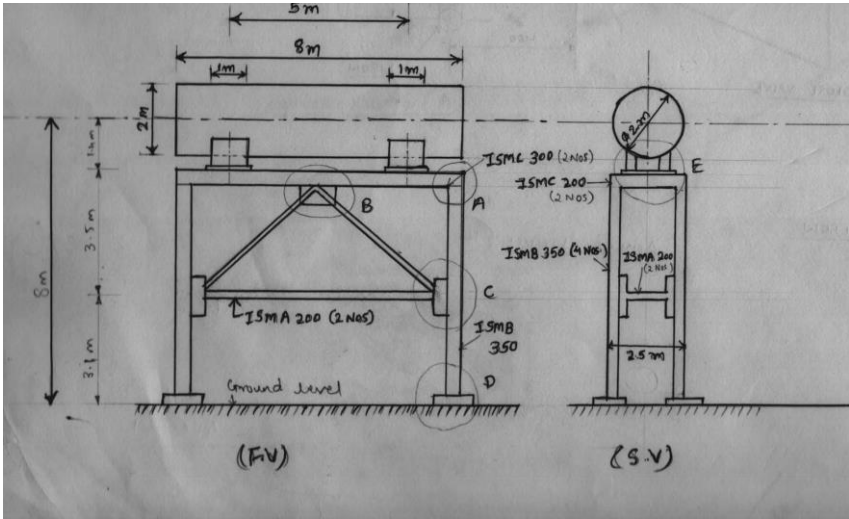
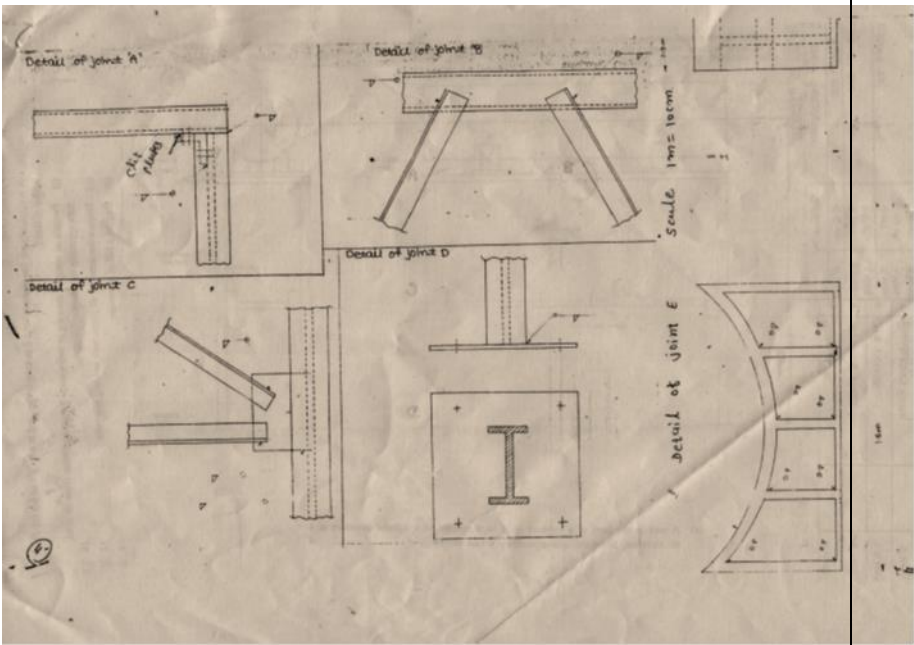
Q.4	Attempt any TWO of the following.	2X8	16
4 .a (i)	 <p style="text-align: center;">(vi) CONICAL HEAD</p>	4mark	8mark
4 .a (ii)	 <p style="text-align: center;">(vi) ROUNDED COUNTER-SUNK HEAD</p>	4mark	
4.b		3mark-F.V 3mark- T.V 2mark- S.V	8mark

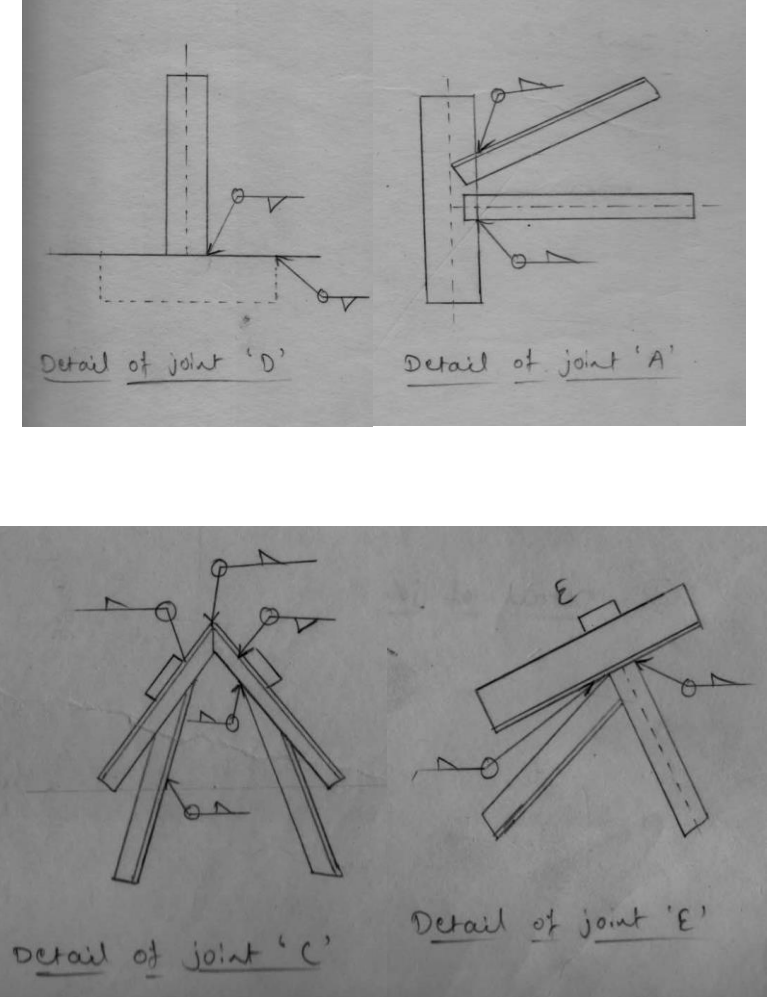
4.c	 <p style="text-align: center;">SINGLE LINE DEVELOPED ORTHOGRAPHIC VIEW.</p>	6Mark- Diagram 2mark- Dimension	8Mark
Q.5	Attempt any TWO of the following.	2X8	16
5a	 <p style="text-align: center;">Fink Truss</p>	4mark- Fink Truss 4mark- Howe truss	8mark

			
5.b		<p>4mark-roller support</p> <p>4mark-saddle support</p>	8mark

	<p>(i) SADDLE SUPPORTS</p>  <p>(a) PLATE TYPE</p>	4 mark	
5c (i)	<p>Bracket Support</p> 	4mark	8mark

<p>5c (ii)</p>		<p>4 mark</p>	
<p>Q.6</p>	<p>Attempt any TWO of the following.</p>	<p>2X8</p>	<p>16</p>
<p>6a</p>	 <p style="text-align: center;">Beam to column connection at flange</p>	<p>4 marks-S.V 4 marks-F.V</p>	<p>8mark</p>

6b	 <p style="text-align: center;">Horizontal tank</p>  <p style="text-align: center;">Detailing of A,B,C,D,E of HORIZONTAL TANK</p>	<p>3mark-F.v</p> <p>3mark-S.v</p> <p>(6m tank)</p> <p>2mark for detailing.</p> <p>(any TWO detailing)</p>	8marks
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6c	 <p>Detail of joint 'D' Detail of joint 'A'</p> <p>Detail of joint 'C' Detail of joint 'E'</p>	<p>2 marks- EACH DETAILING (4 DETAILING)</p>	8 marks
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