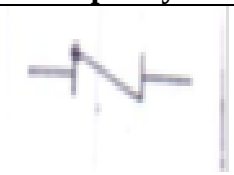
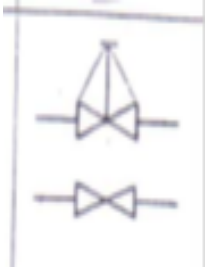
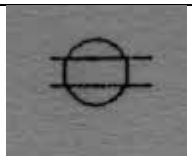
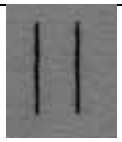
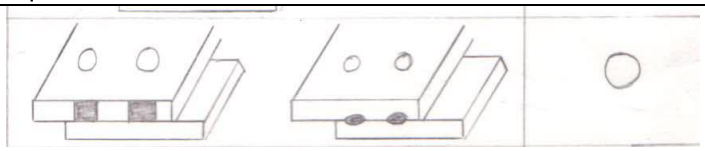
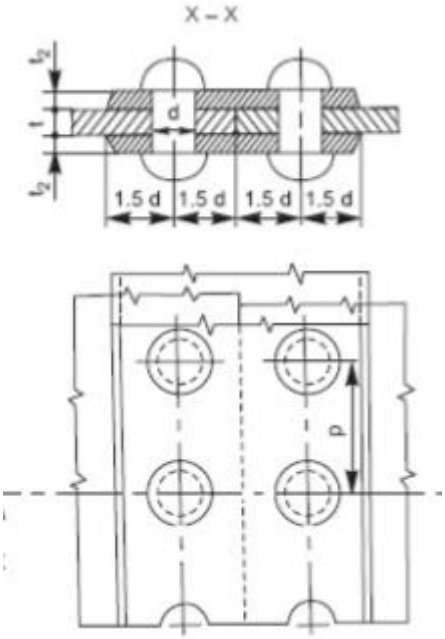
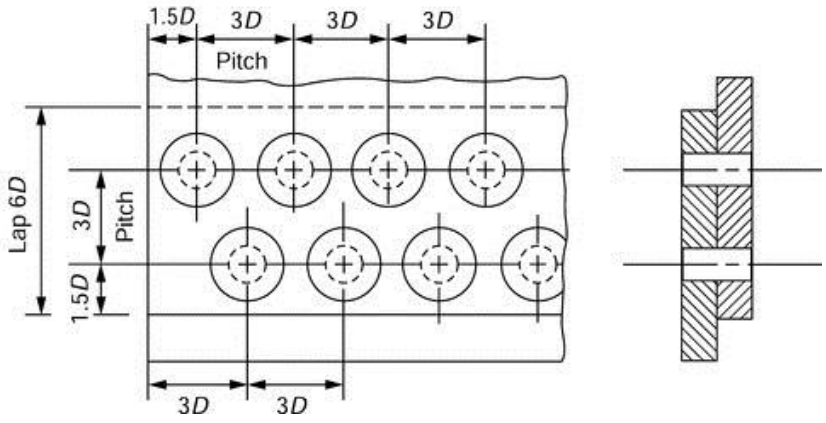
WINTER – 17 EXAMINATIONS

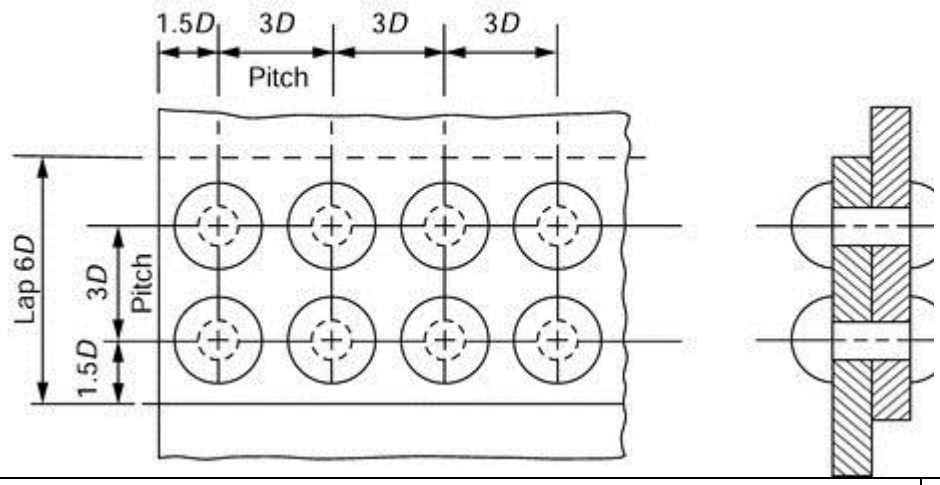
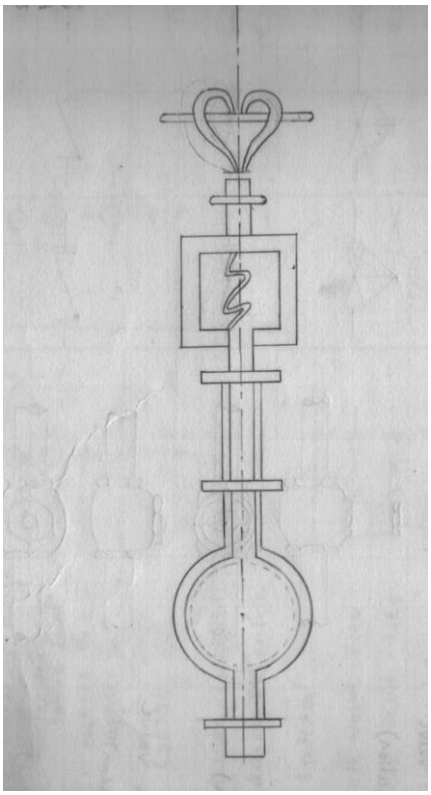
Subject Code: **17328** **Model Answer** Page No: ____/

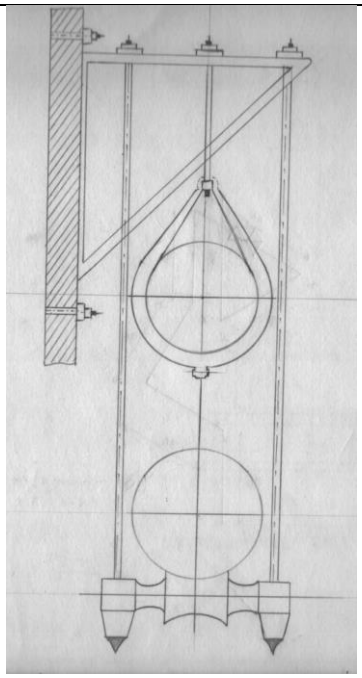
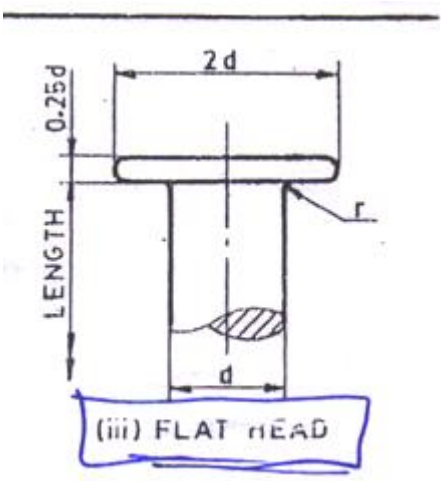
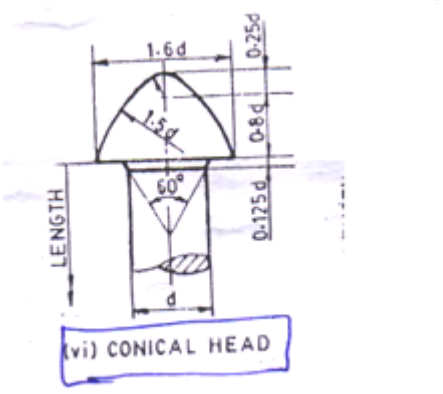
Important Instructions to examiners:

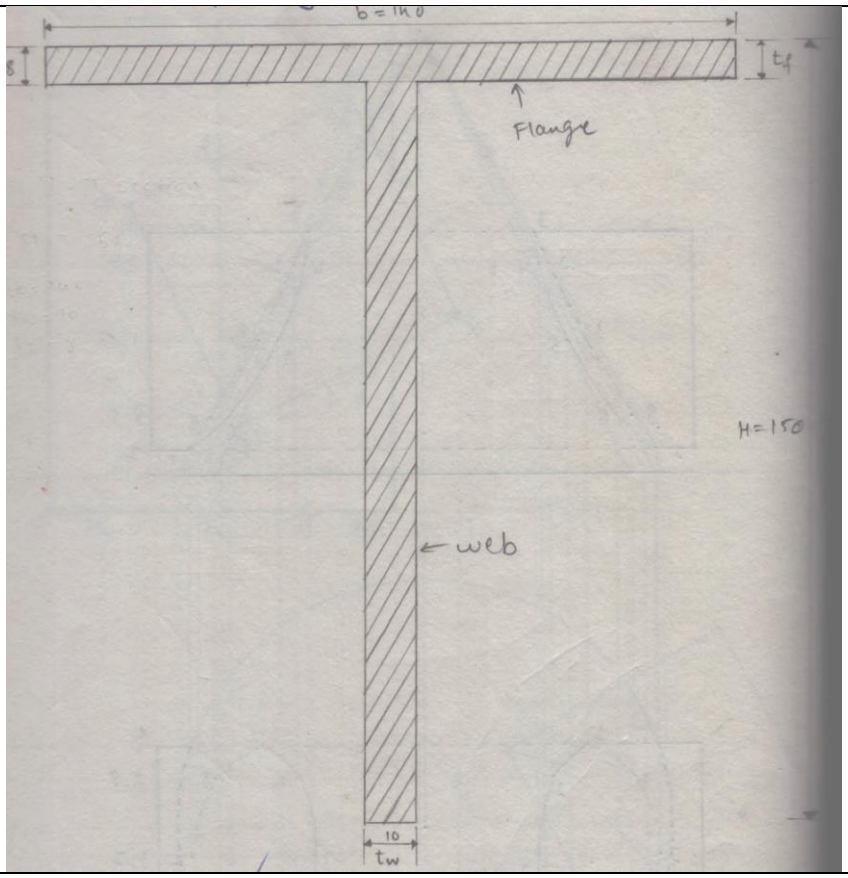
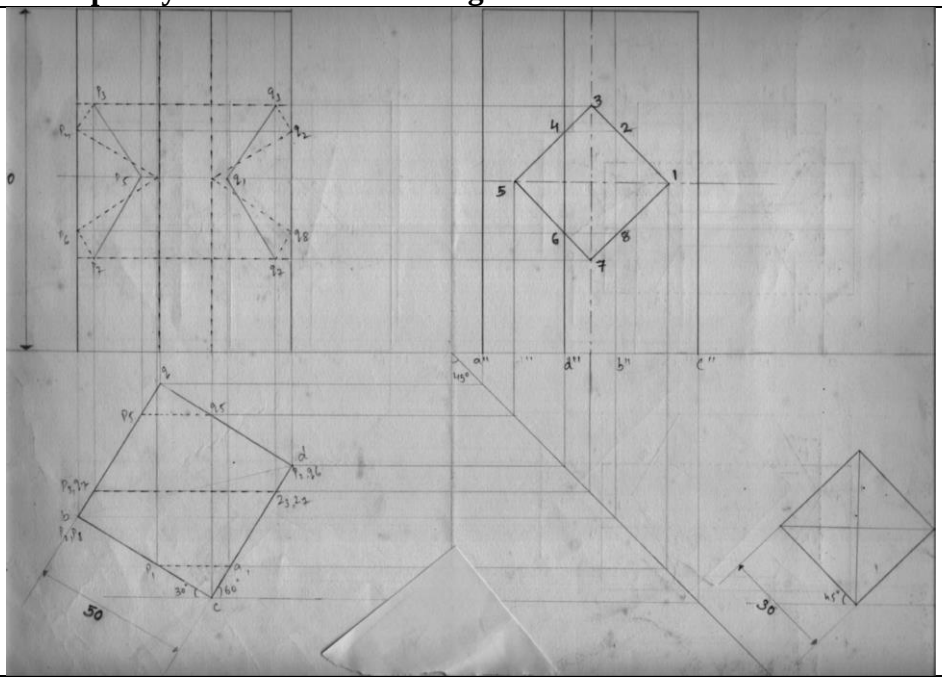
1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
3) The language errors such as grammatical, spelling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

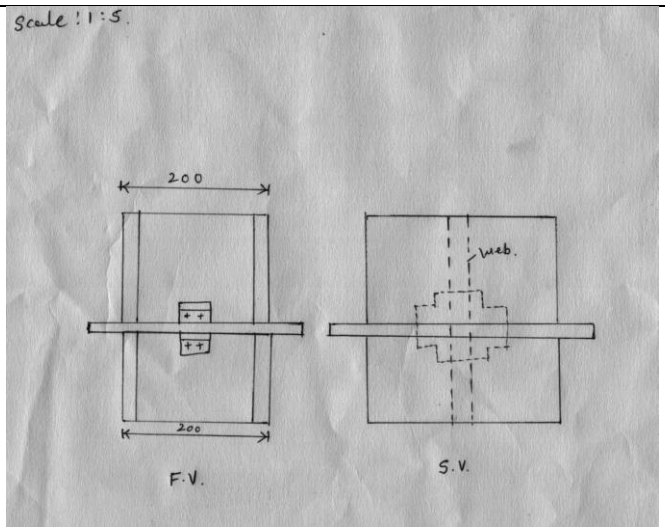
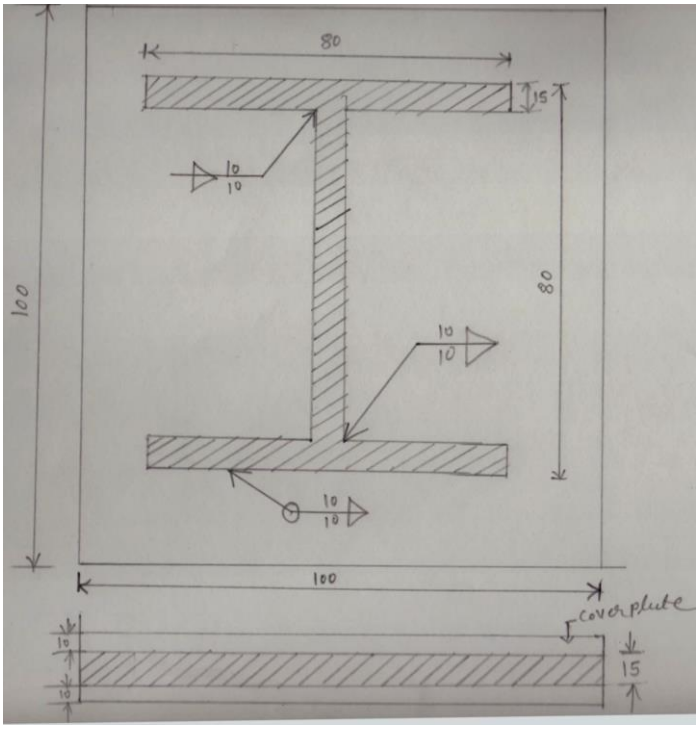
Q. NO.	MODEL ANSWER	MARKS	TOTAL MARKS
1.A	**Attempt any TWO of the following:**		**2X6=12**
a i	 Check valve	3 mark	6 M
ii	 Gate valve	3 mark	
b i	 Seam weld	2 m	6M
ii	 Square butt weld	2 m	
iii	 Spot weld	2 mark	

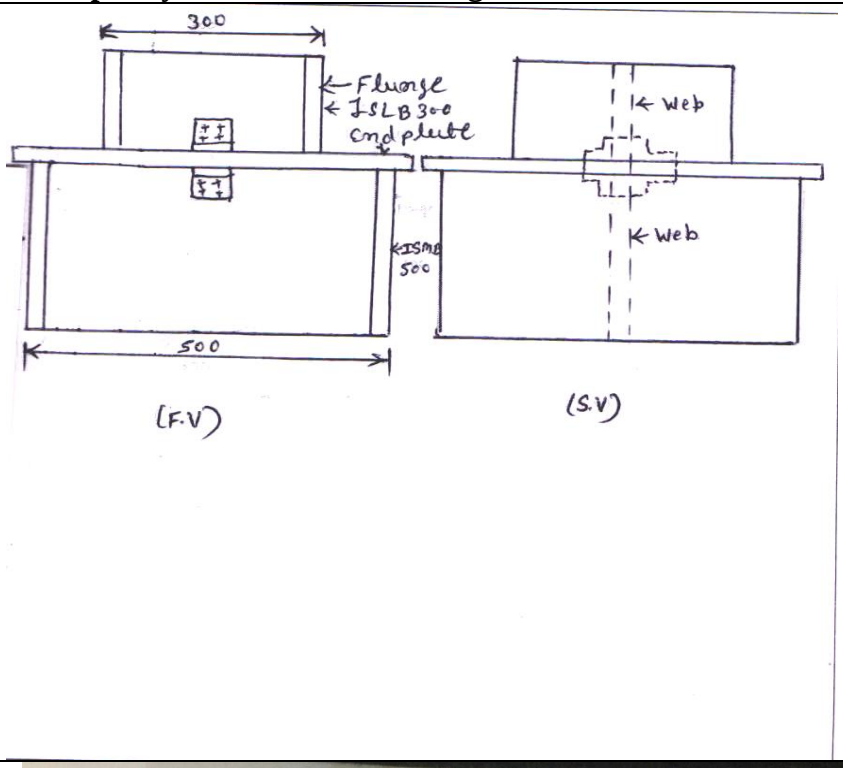
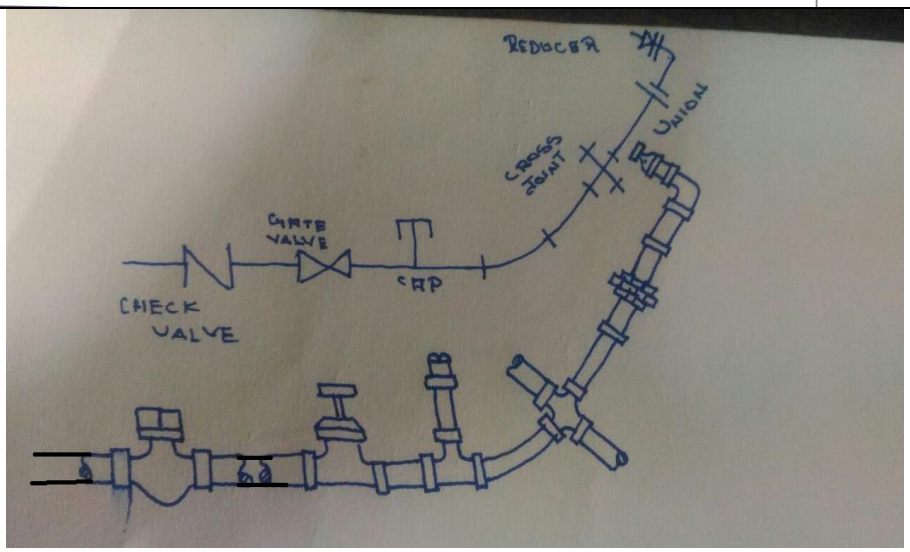
c i	 SINGLE RIVETTED BUTT JOINT (DOUBLE STRAPPED)	3M	6M
ii	**Double row (zigzag) lap joint**  OR DOUBLE RIVETED (CHAIN) LAP JOINT	3M	

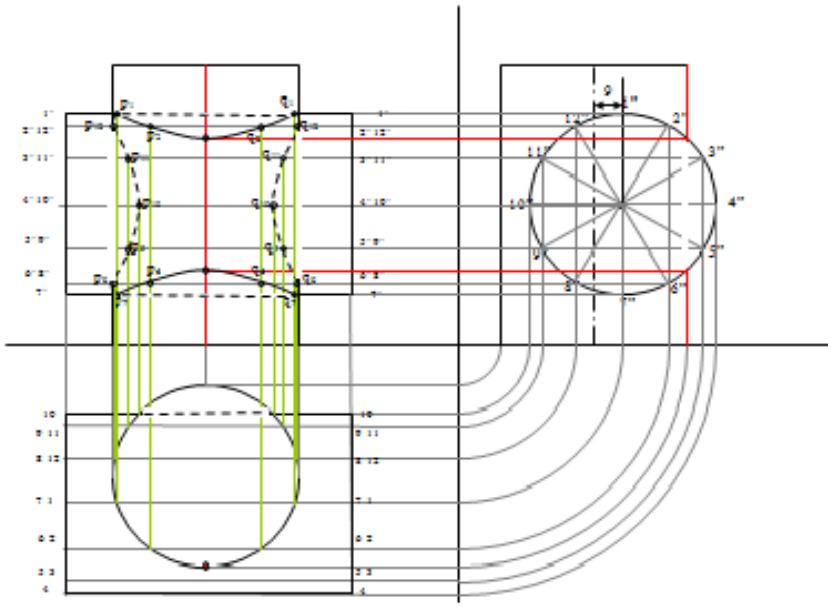
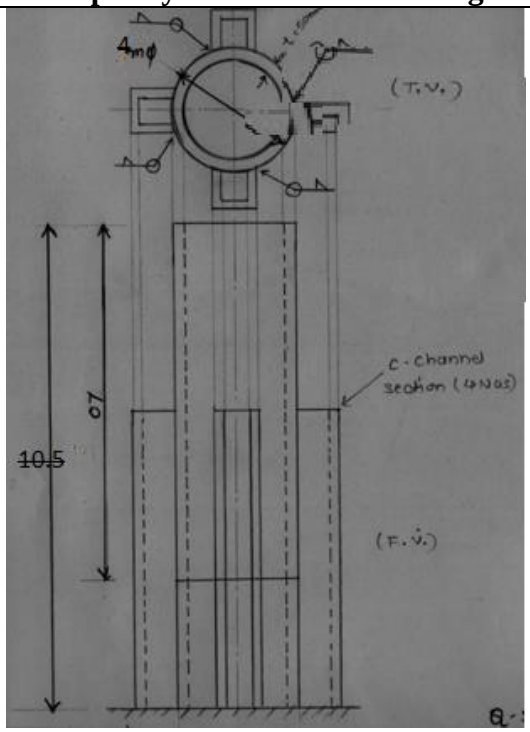
	Double row (chain) lap joint 		
1.B	**Attempt any TWO of the following:**		**2X4=8**
a	Note : any one hanger either spring or bracket hanger.  Spring hanger Note : any one hanger either spring or bracket hanger.	4m	4m

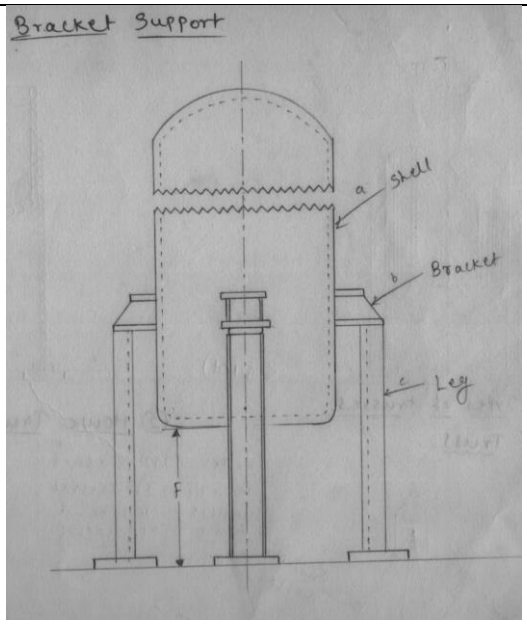
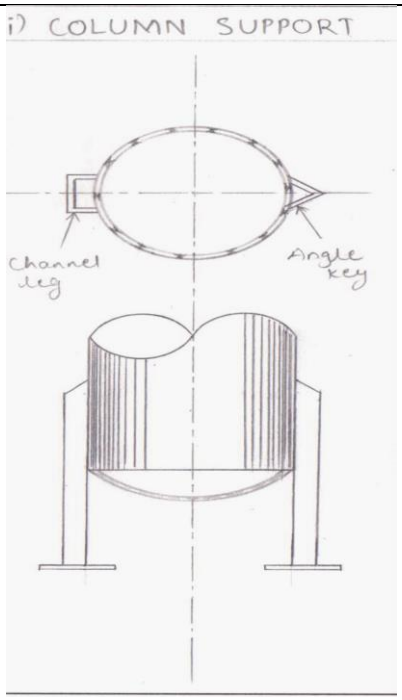
	 Bracket supported hanger		
b	 	2M 2M	4M

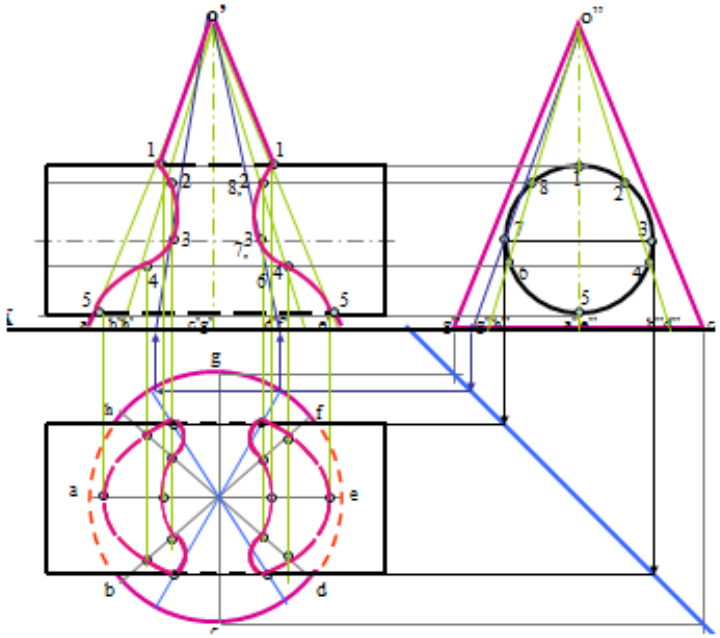
c		**3m-drg** **1m-** dimension	4 mark
2.	**Attempt any TWO of the following:**		8X2=16
a		2m Fv 2m S.v 3m T .v 1M-Dimension	**8m**

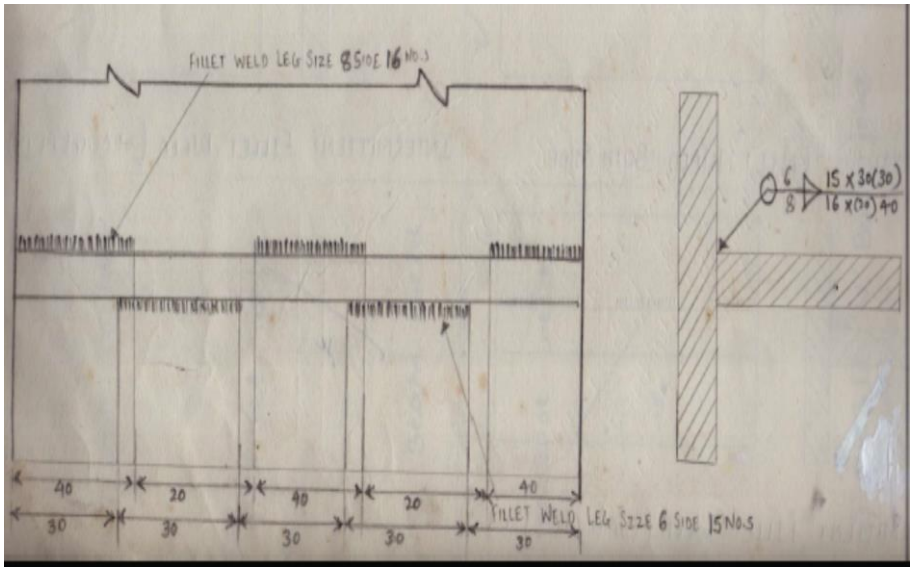
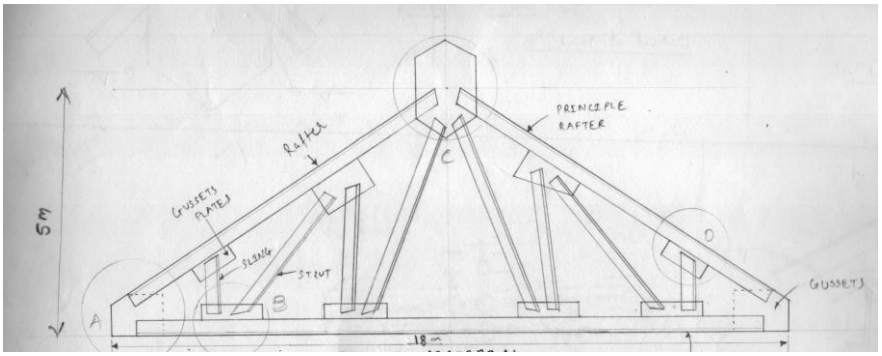
b)		4m-F.V **4m**- S.V	8m
c)		2m welding symbol 2m-T.v 4m –F.V	**8M**

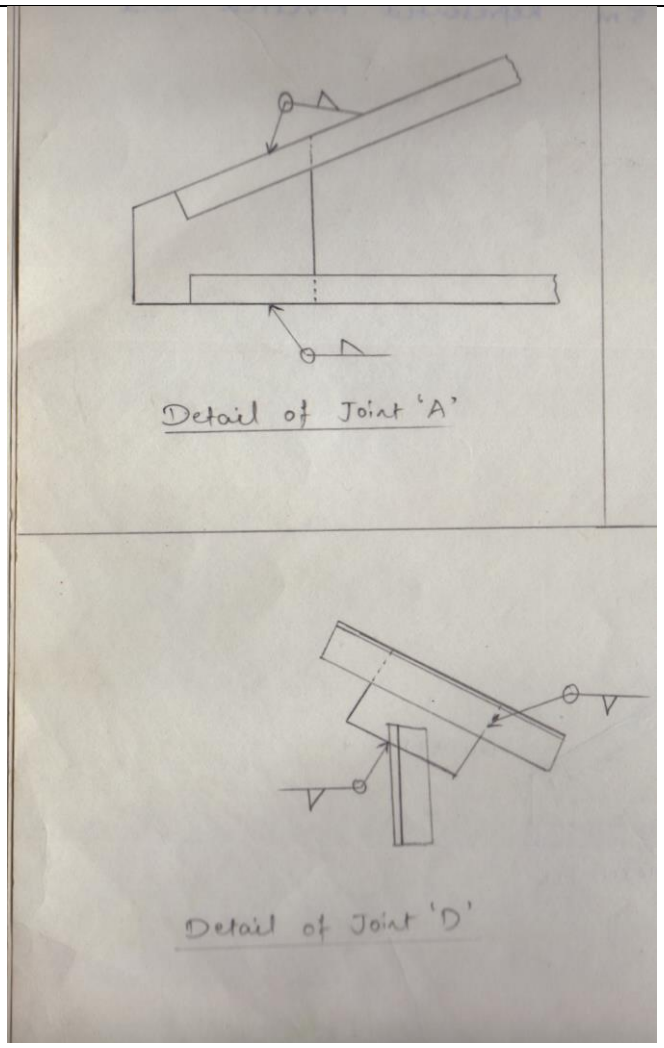
3.	Attempt any TWO of the following:		2X8=16
a		4mark-S.V 4mark-FV	**8**
b		**8m**	**8 M**

c		4m-F.V 2m- S.V 2m- T.V	8 m
4.	**Attempt any TWO of the following:**		2X8=16
a	 VERTICAL VESSEL	4m-F.V 4 m- T.V	8M

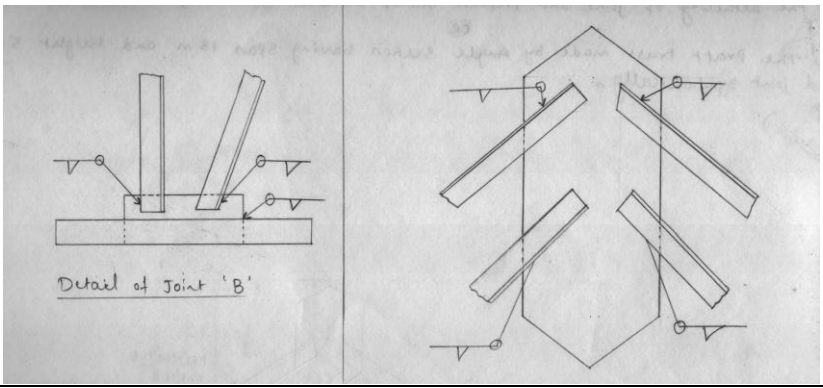
b i		4m	8m
4 b ii		4M	

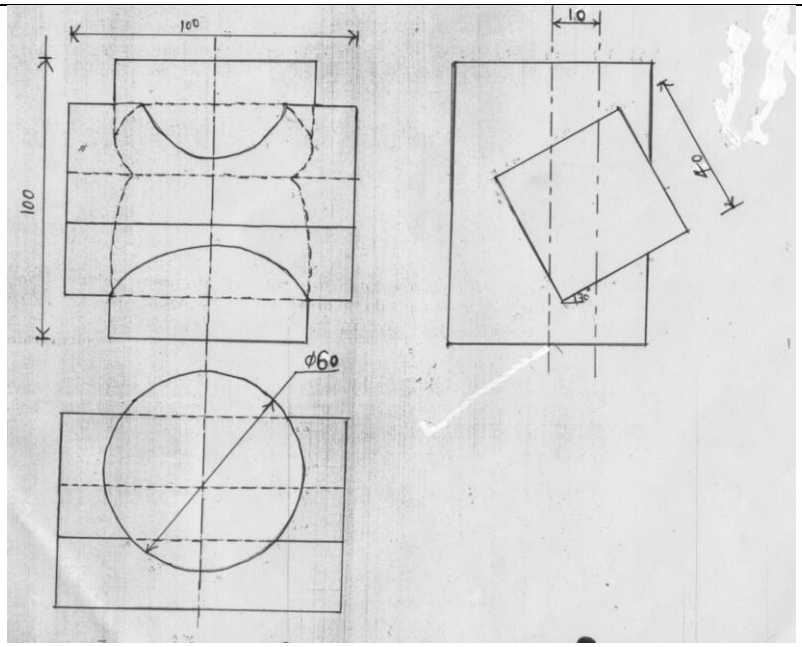
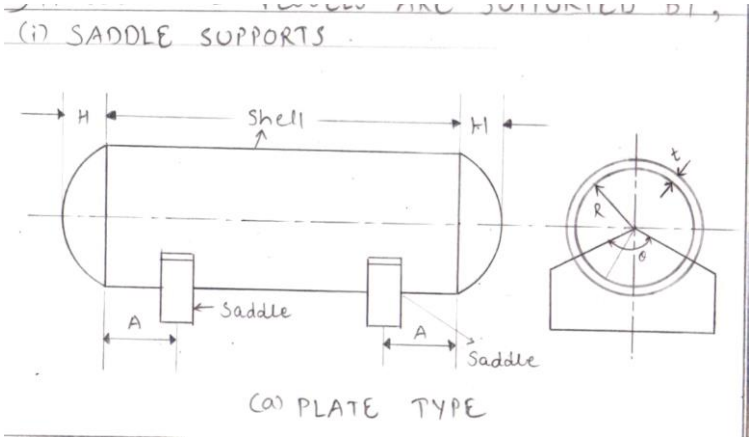
4 c		3m-F.V 3m- T.V 2m- S.V	8 M

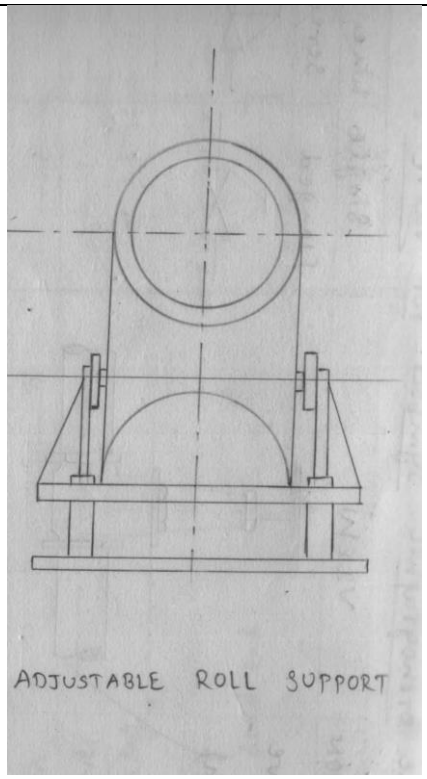
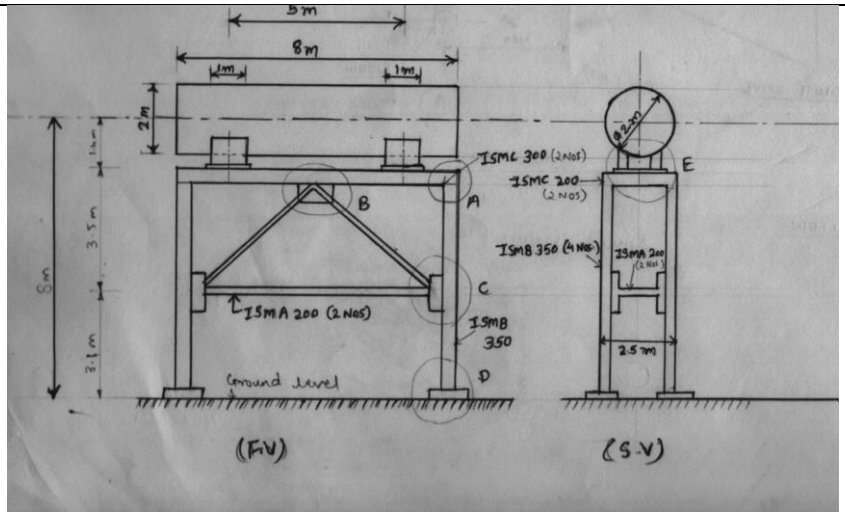
5.	Attempt any TWO of the following:		2X8=16
a		5-F.V 3-S.V	**8**
b	 **Pratt Truss**	4 mark 2M-DETAIL JOINT (ANY TWO)	**8m**

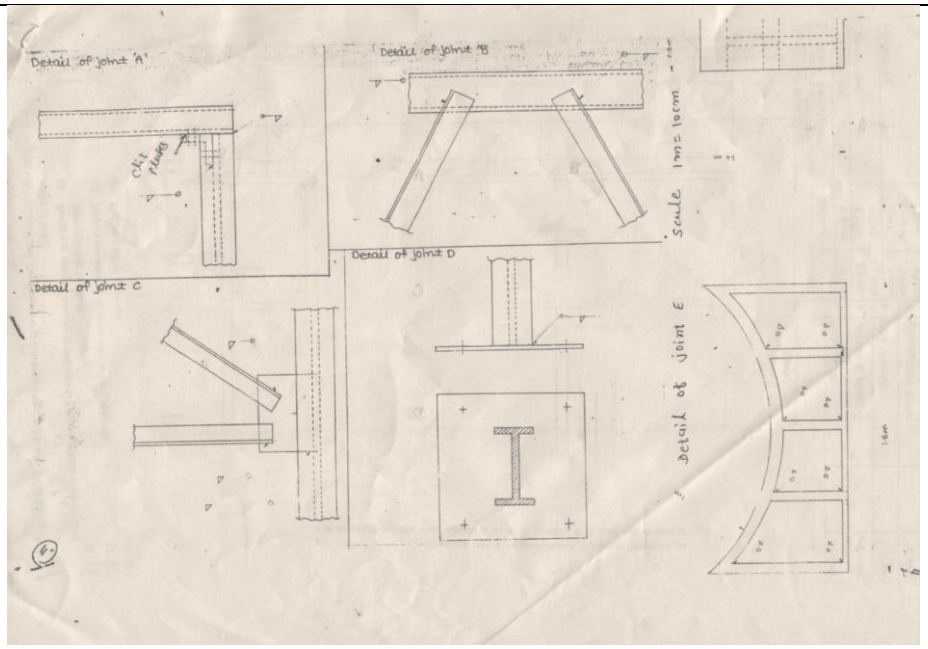
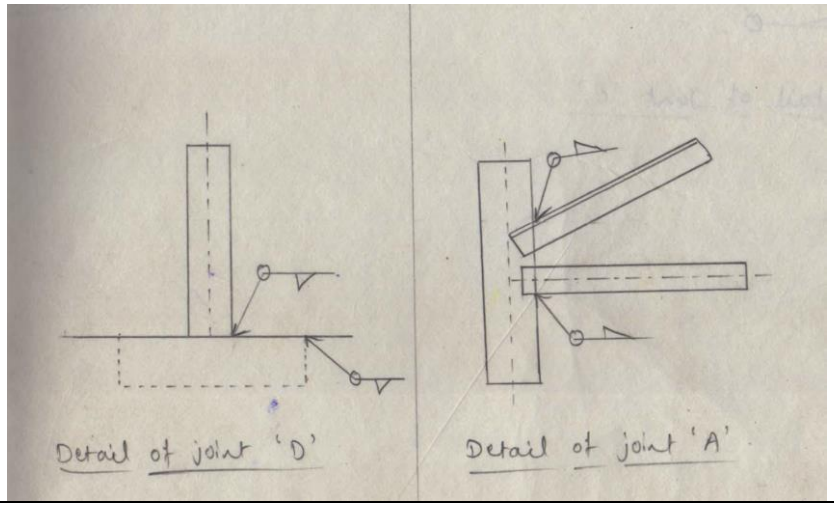


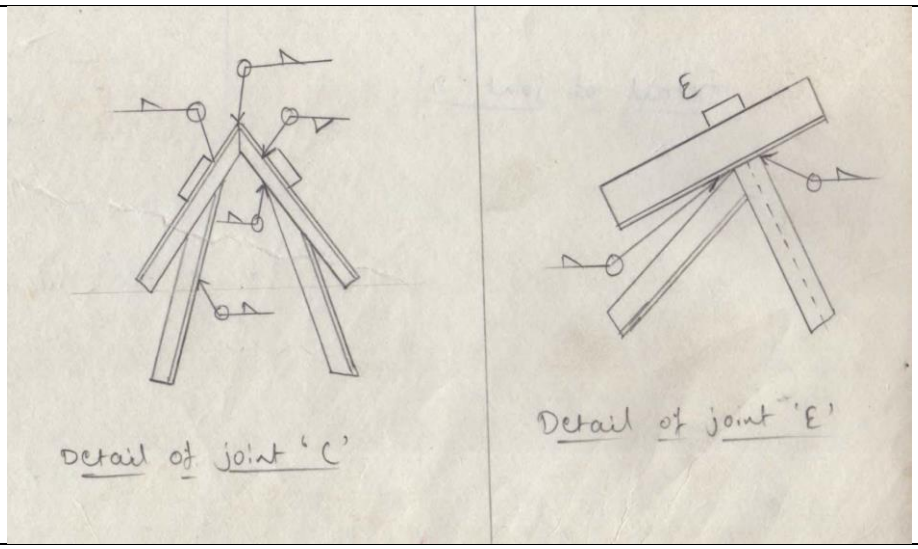
DETAIL OF JOINT C



c	 Assume connecting rod- cylinder , rectangular block- square prism and showing curves of intersection.	3m-F.V 2m- T.V 3m- S.V	8M
6.	Attempt any TWOof the following:		2X8=16
a		4m- saddLe support 4m- roller support	8m

			
b	 Horizontal tank	3m-F.v 3m-S.v 2m for ANY ONE detailing.	8 m

	 Detailing of A,B,C,D,E of HORIZONTAL TANK		
c		2 m for each detail	8m


E
Detail of joint 'C'
Detail of joint 'E'