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SUMMER-15 EXAMINATION <u>Model Answer</u>

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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 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.



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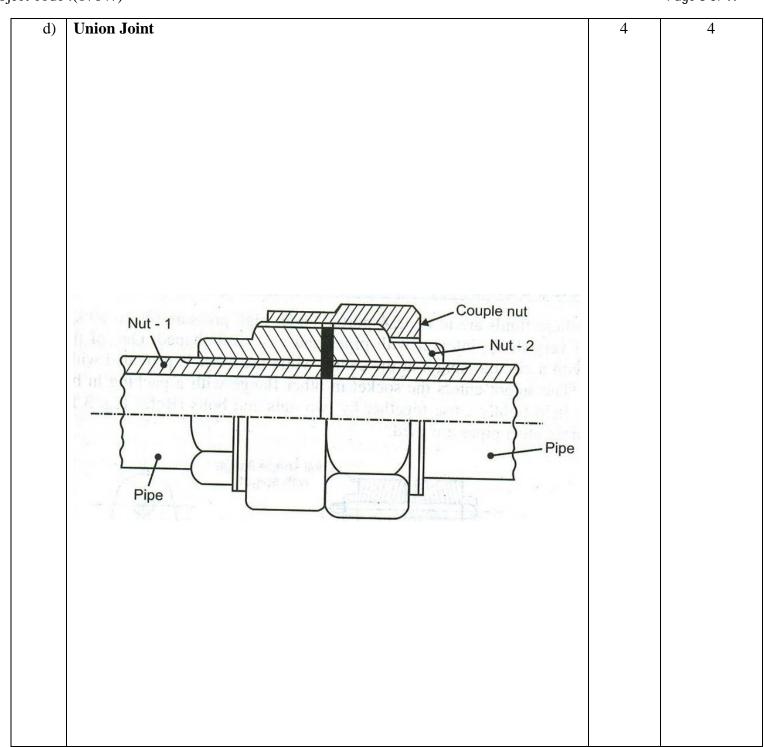
Q No.	Answer	Marks	Total marks
1 A a)	Symbol of globe valve and needle valve or	2+2	4
b)	Rota meter (other symbol is not mentioned properly. Give full marks to Rota meter)	4	4
c)	Raschig ring and cross partition ring Raschig Ring Cross partition Ring	2+2	4



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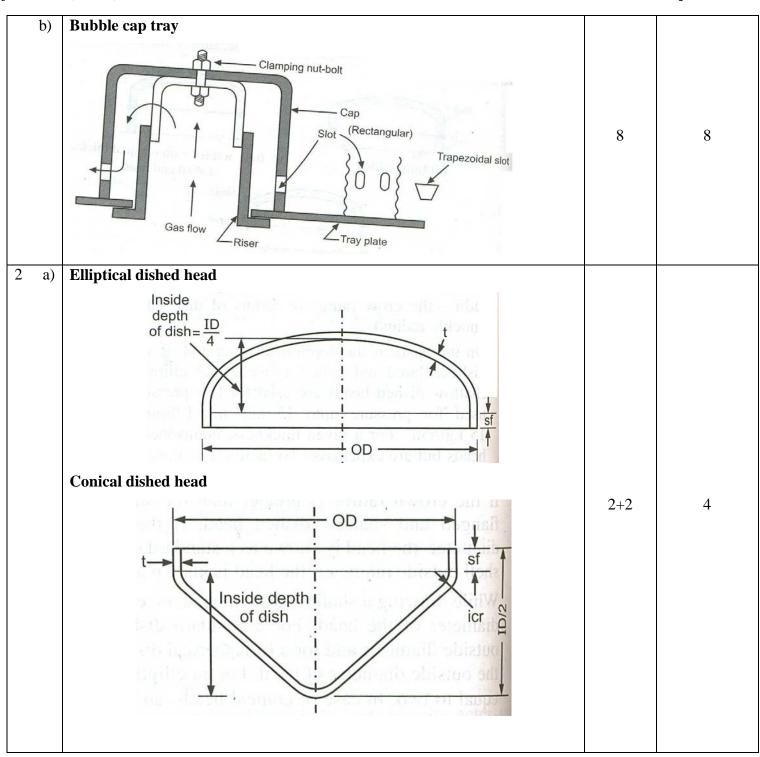
1.	Specification No				
2.	Number required	Location			
3.	Type	Duty as			
4	Operating data/conditions	Duty us	err i errer kurnoge		
5.	Fluid description	Shell side	Tube side		
6.	Name	In out	In out		
7.	Composition	In out	In out		
8.	Flow rate, kg/h	In out	In out		
9.	Density, kg/m ³	In out	In out		
10.	Viscosity, cP	In out	In out		
11.	Specific heat,	1112	Contract the state		
12.	Latent heat, kcal/kg	er er dinadi,' er er	(21.C.X.). 10		
13.	Thermal conductivity	sV was ar	epopulari Avilla. A		
14.	Temperature, °C	In out	In out		
15.	Operating pressure, kgf/cm ² ·g	In out	In out		
16.	No. of passes	[Market Of		
17. 21.	Velocity, m/s Tube: OD mm, length		catuenooi. Il		
22. 23.	pitch mm □ Δ mate Shell : Nom. OD length Shell cover : Material	8			
24.	Channel Channel cover				
25.	Tube sheet type (stationary/floating)				
26.	Baffles: type No Thickness				
27.	Shell side nozzles : Inlet outlet drain				
20	Tube side nozzles: Inlet outlet				
28.		Corrosion allowance : shell side tube side			
29.		tube side			
29. 30.	Gaskets	tube side			
29.		integral and mile	est to reach the		
29. 30.	Gaskets Design code	r in takent e Exemple all	kgf/cm²·g, o		
29. 30. 31.	Gaskets Design code Design pressure and temperature	kgf/cm²⋅g, °C	kgf/cm²·g, o		
29. 30. 31. 32. 33.	Gaskets Design code Design pressure and temperature Test pressure and temperature	kgf/cm²·g, °C	, <u>d</u> = 2000		
29. 30. 31. 32. 33. 34.	Gaskets Design code Design pressure and temperature Test pressure and temperature Weight : Dry, Tube bundle	kgf/cm²·g, °C , Unit full of water	, <u>d</u> = 2000		
29. 30. 31. 32. 33.	Gaskets Design code Design pressure and temperature Test pressure and temperature Weight : Dry, Tube bundle Remarks	kgf/cm²·g, °C , Unit full of water	, <u>d</u> = 2000		
29. 30. 31. 32. 33. 34.	Gaskets Design code Design pressure and temperature Test pressure and temperature Weight : Dry, Tube bundle	kgf/cm²·g, °C , Unit full of water Approved by	,, kg.		



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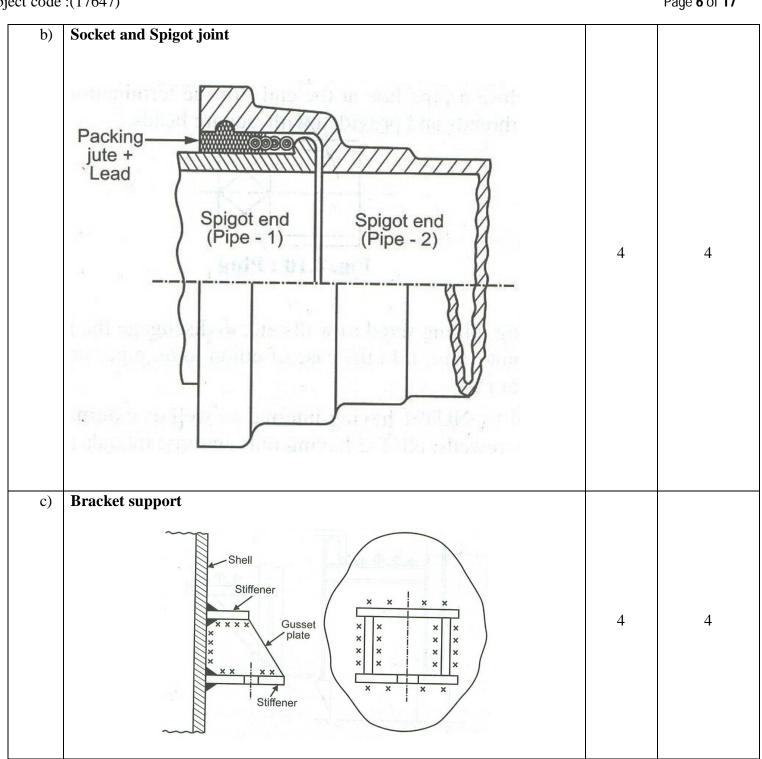




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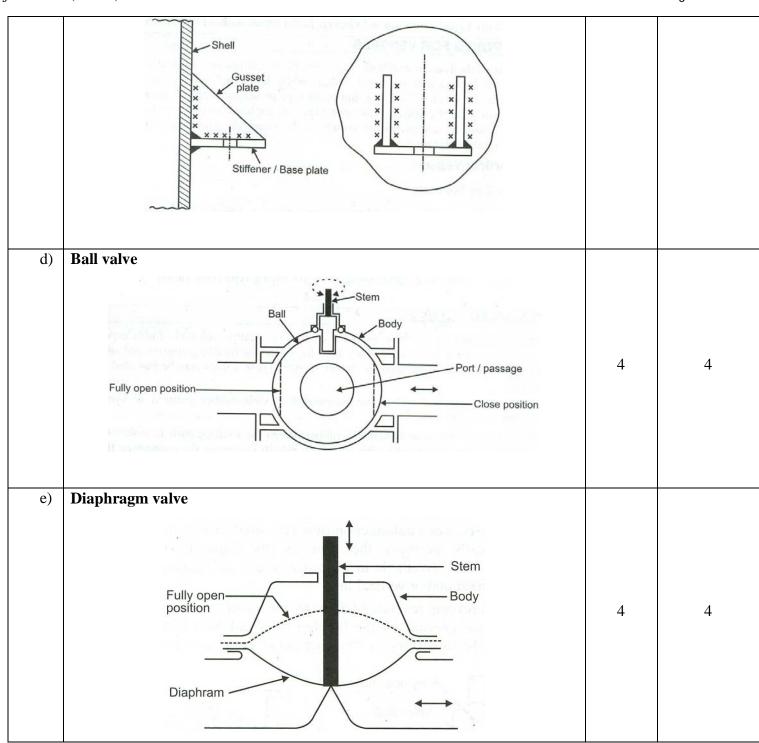




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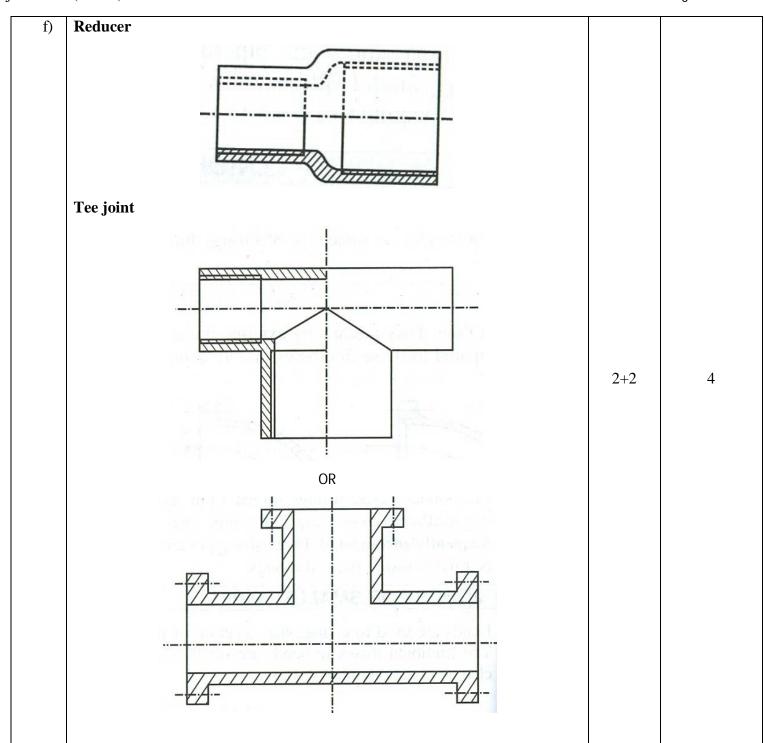




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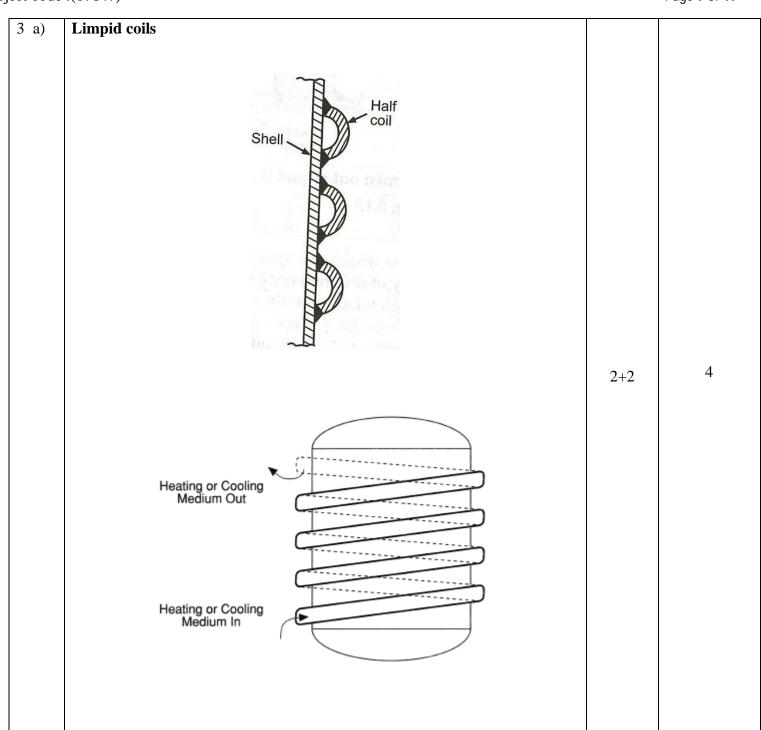




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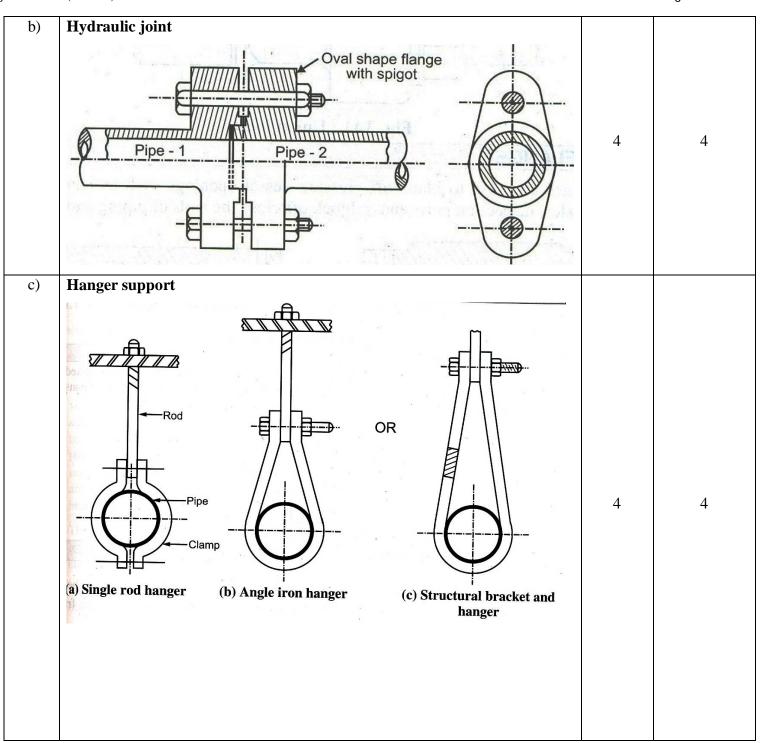




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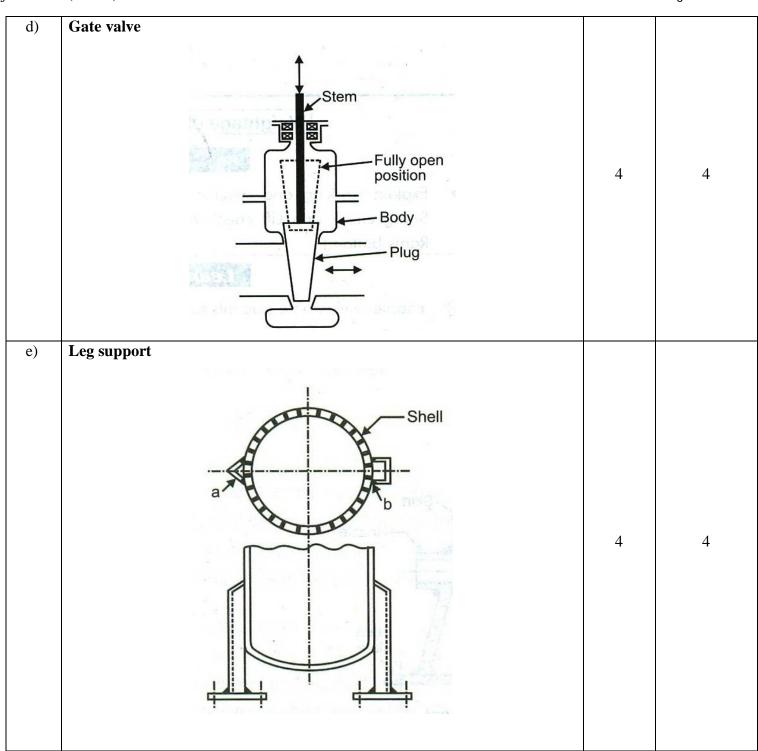




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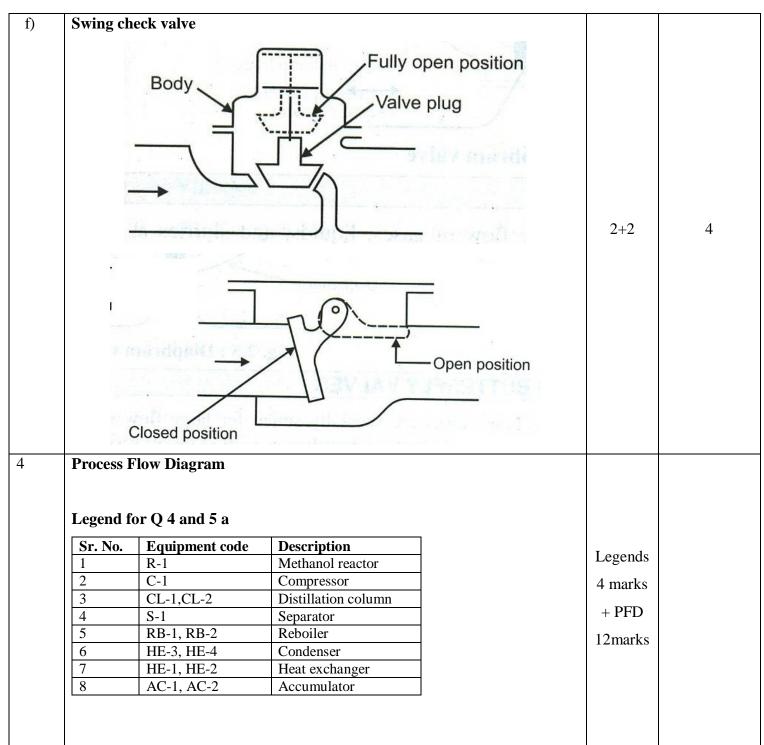




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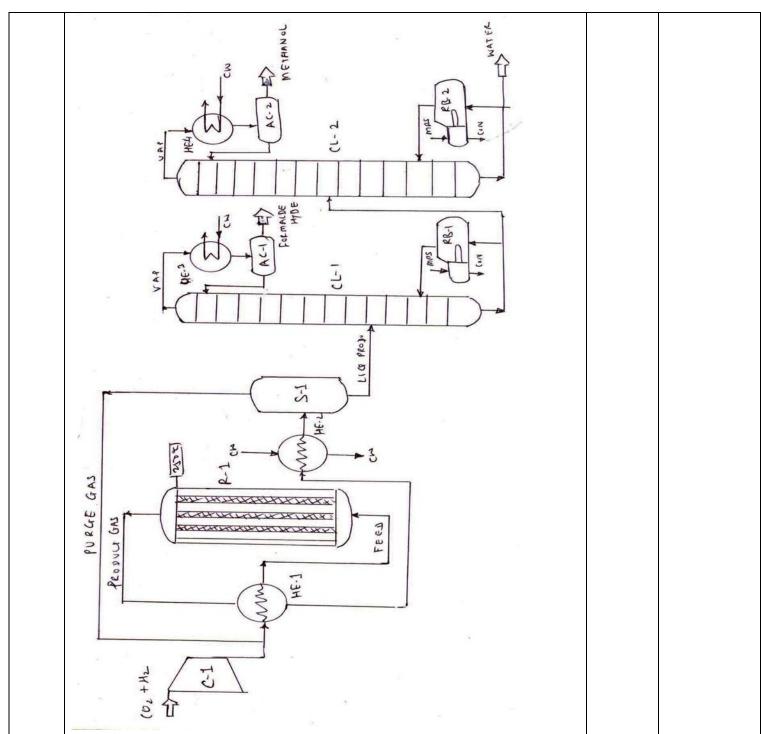




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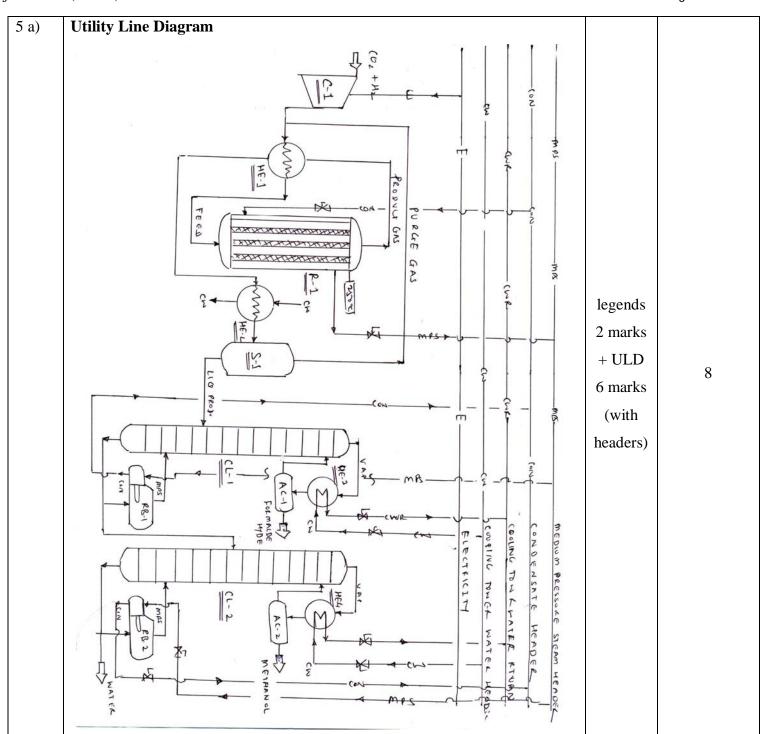




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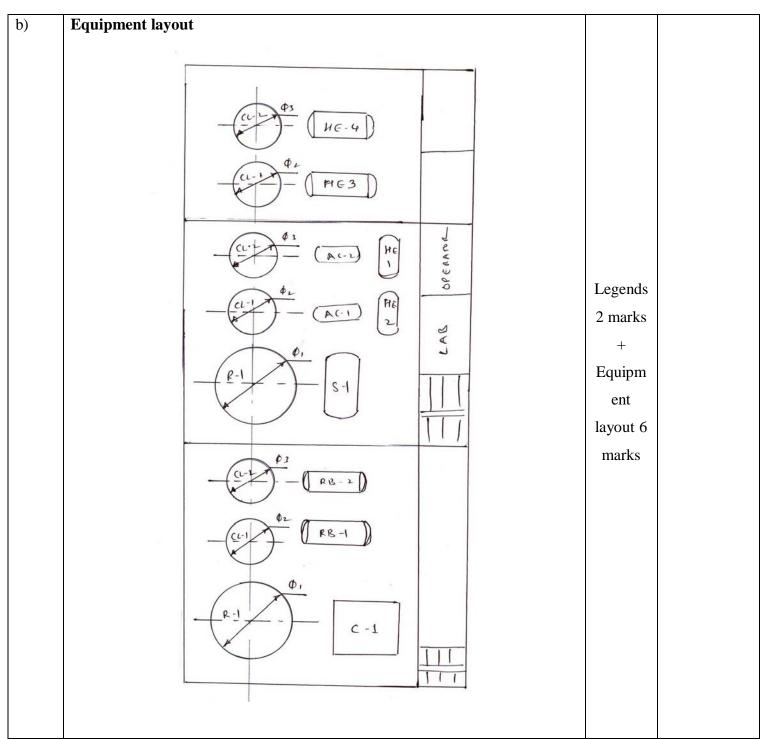




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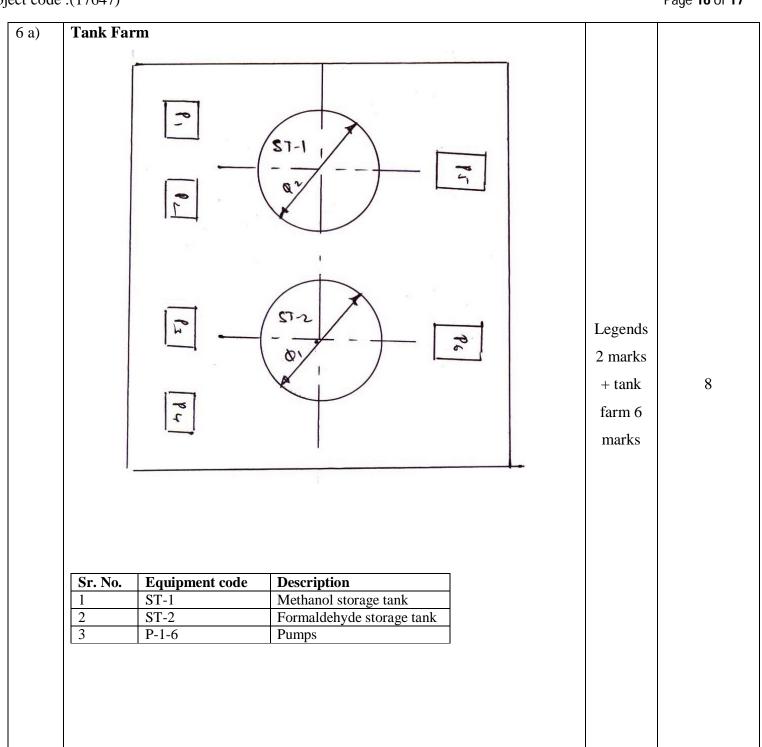




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