

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION (Autonomous)

(ISO/IEC - 27001 - 2013 Certified)

WINTER- 17 EXAMINATION Model Answer

Subject Name: Chemical Engineering Drawing

Subject Code:

17647

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.

Q. No.	Sub Q. N.	Answer	Marking Scheme
1	A	Attempt any three	12
	a	Bag Filter Kettle type reboiler	2+2
	b	Autoclave, Burner	2+2
		villal, profit 8	

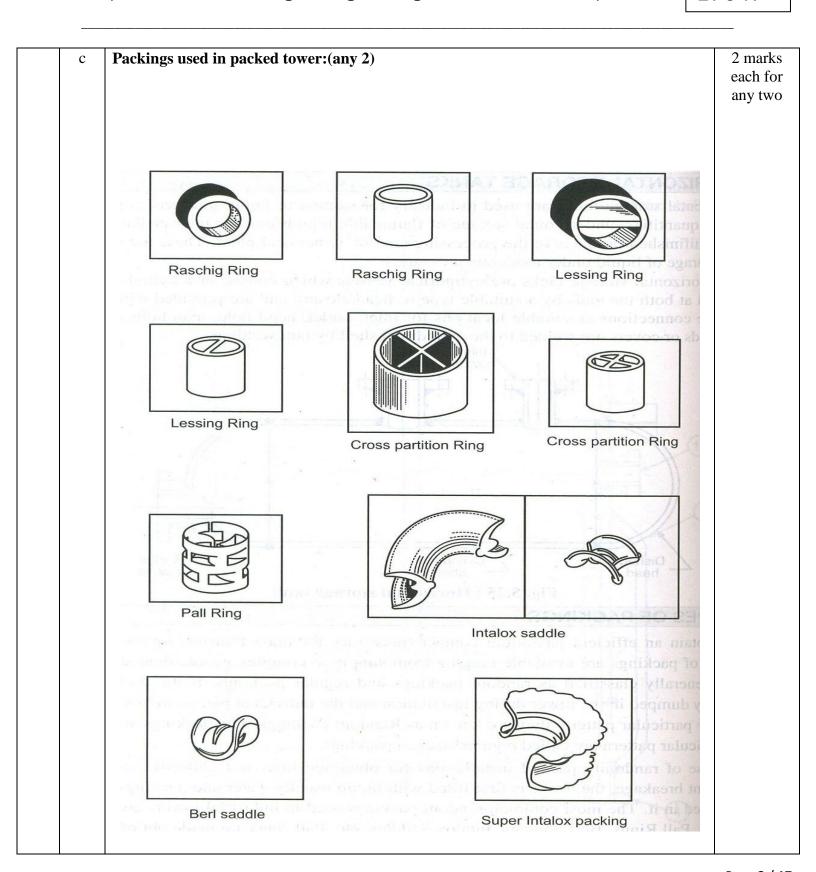


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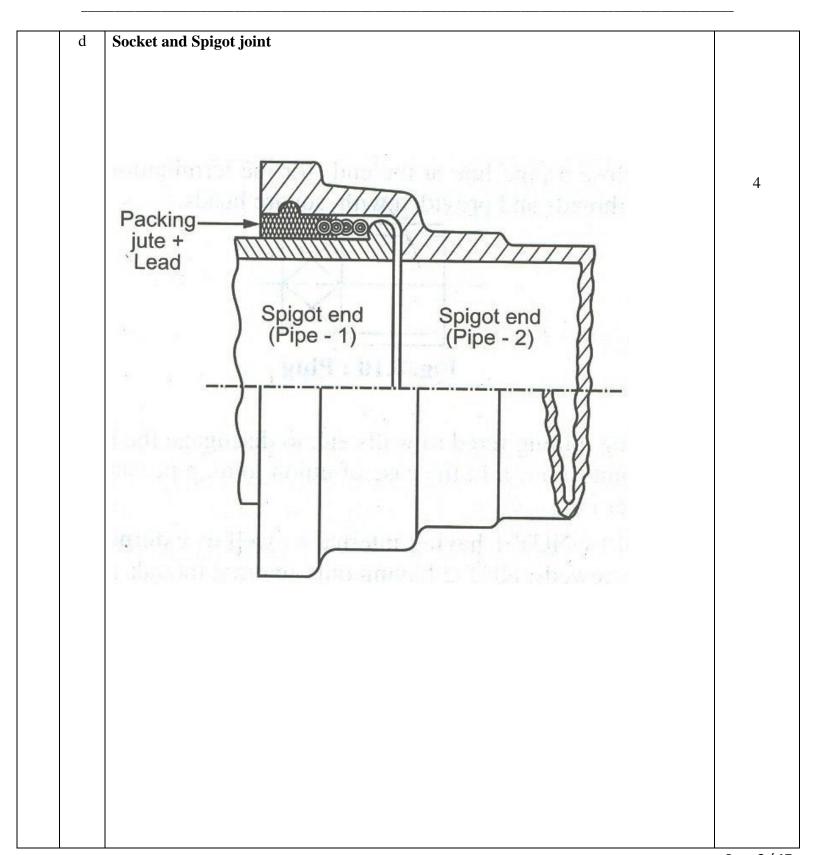


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a	Specification sheet for heat exchanger			;	
	1. Specification No Date				·
	2.	Number required		to assess or assumo	
	3.	Type	Duty as		
	4	Operating data/conditions		PROPERTY OF THE PROPERTY OF TH	
	5.	Fluid description	Shell side	Tube side	
	6.	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,	UV 17	CHEROLOGY 36	
	12.	Latent heat, kcal/kg	(H.H.H.)	THE COURT OF	
	13.	Thermal conductivity	17 403-21	epical scalville. It	
	14.	Temperature, °C	In out	In out	
	15.	Operating pressure, kgf/cm ² ·g	In out	In out	
	16.	No. of passes	[]	Marilla (1)	
	17.	Velocity, m/s	11 d 1 1 (DX	A CONSTRUCTION OF THE CONS	
	_ 21.	Tube: OD mm, length		(G)	
	- 22	pitch mm □ Δ mate			
	22.	Shell: Nom. OD length	mm thickness	A CONTRACTOR AND A CONT	
	23.	Shell cover : Material		3 3 4 5 4	
	24.	Channel Channel cover		282 111.2	
	25.	Tube sheet type (stationary/fl	No Thickness	No. of the Control of	
	26.				
	27.	Shell side nozzles : Inlet outle	et drain	() and profitours ()	
	28.	Tube side nozzles: Inlet outle	et	Carrier Promote File	
	29.	Corrosion allowance : shell side	tube side	2.4 complex steads with a	
	30.	Gaskets	/		
	31.	Design code	issue what	Sept of all roles of the sept	
	32.	Design pressure and temperature	kgf/cm²·g. °C	kgf/cm ² ·g°C	
	33.	Test pressure and temperature	The state of the s	28/71 - 5/12/14 1	
	34.	Weight: Dry, Tube bundle		leα	
				kg.	
	35.	Remarks		teat yet twenty to	
			by Checked by Approved by Address		
Name and Address					

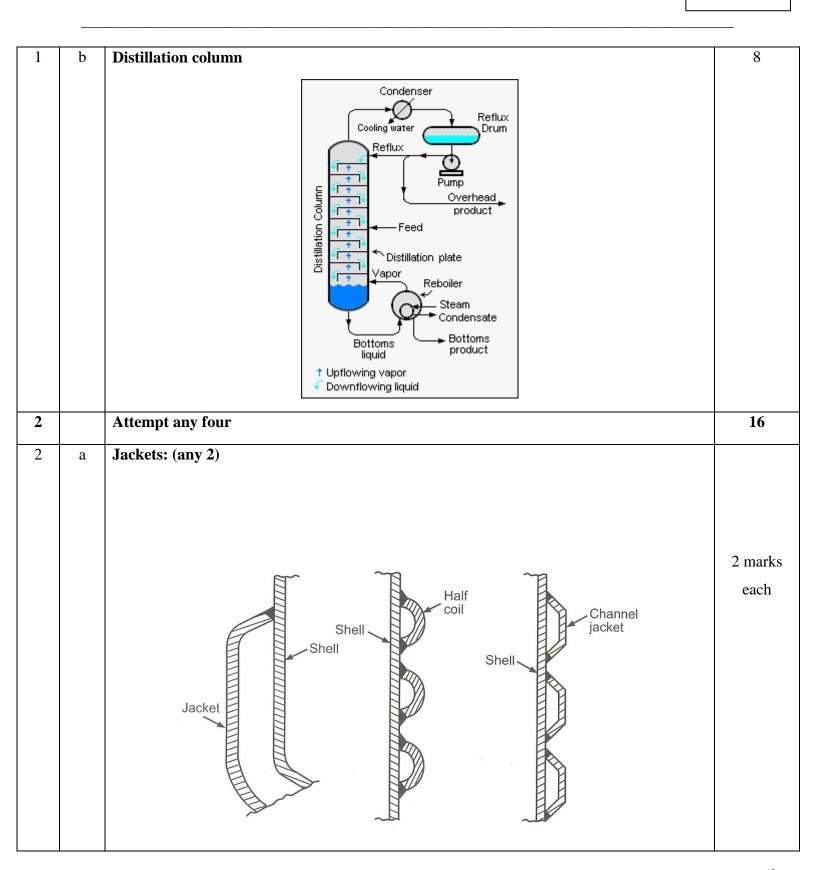


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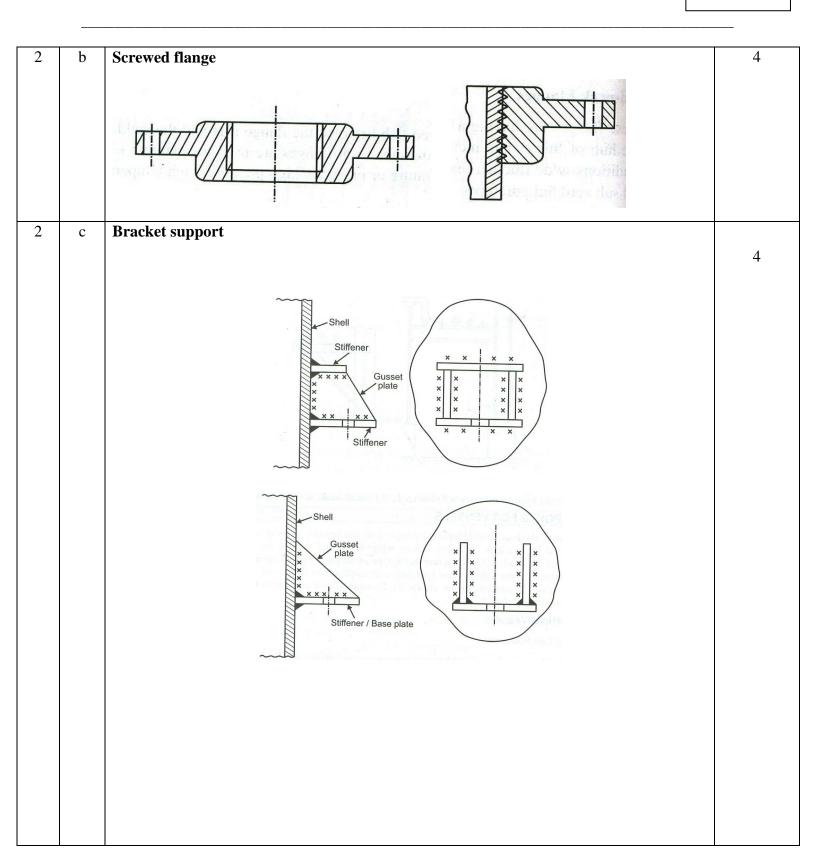
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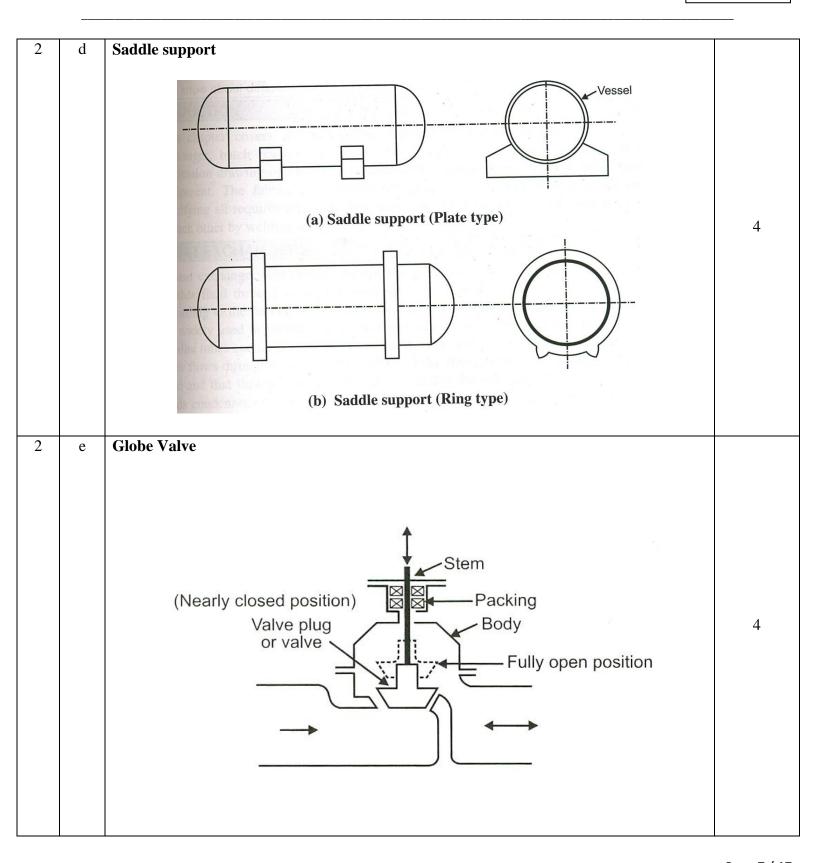
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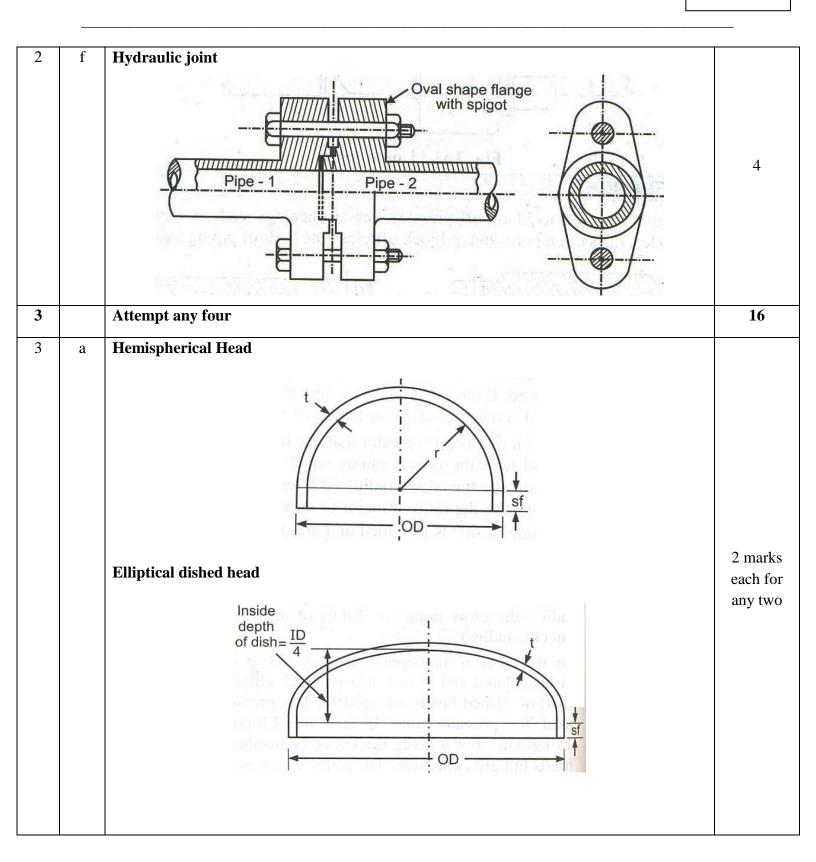
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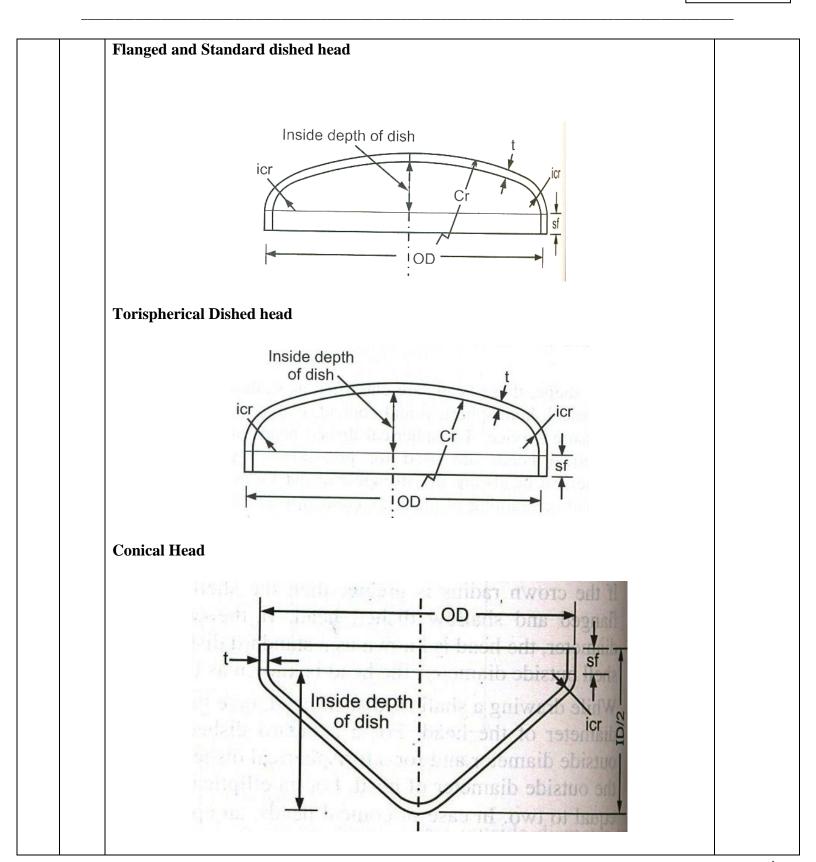


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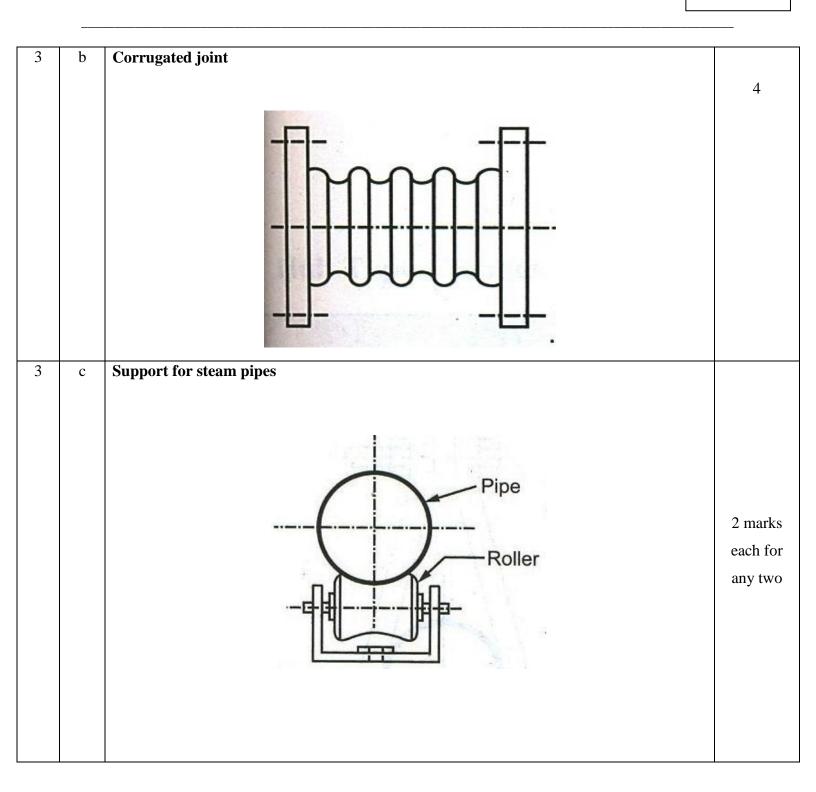
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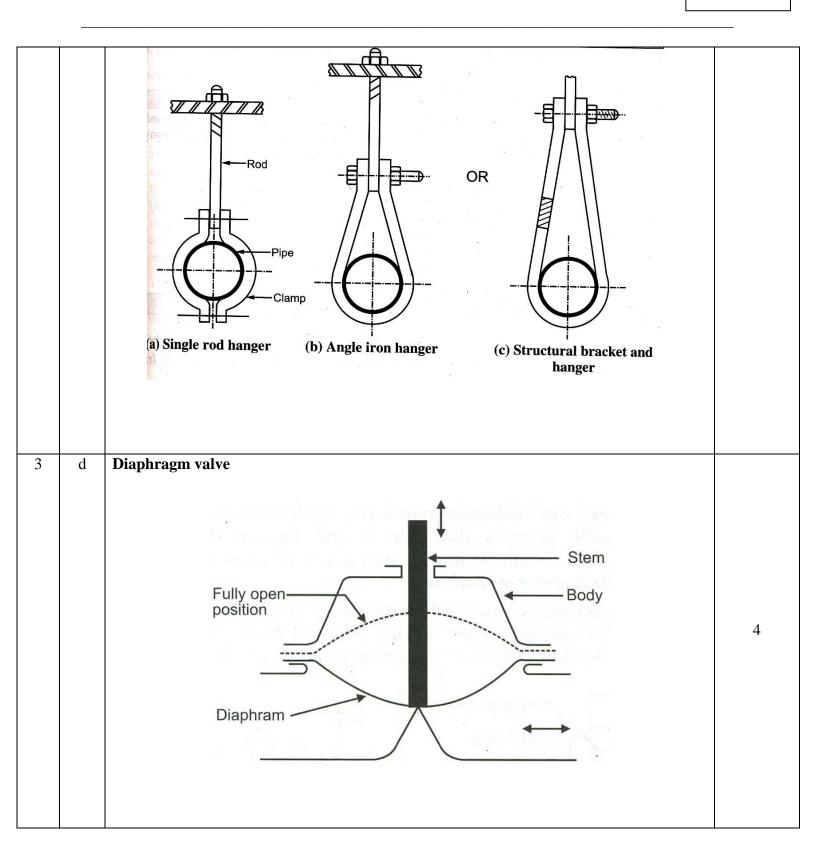
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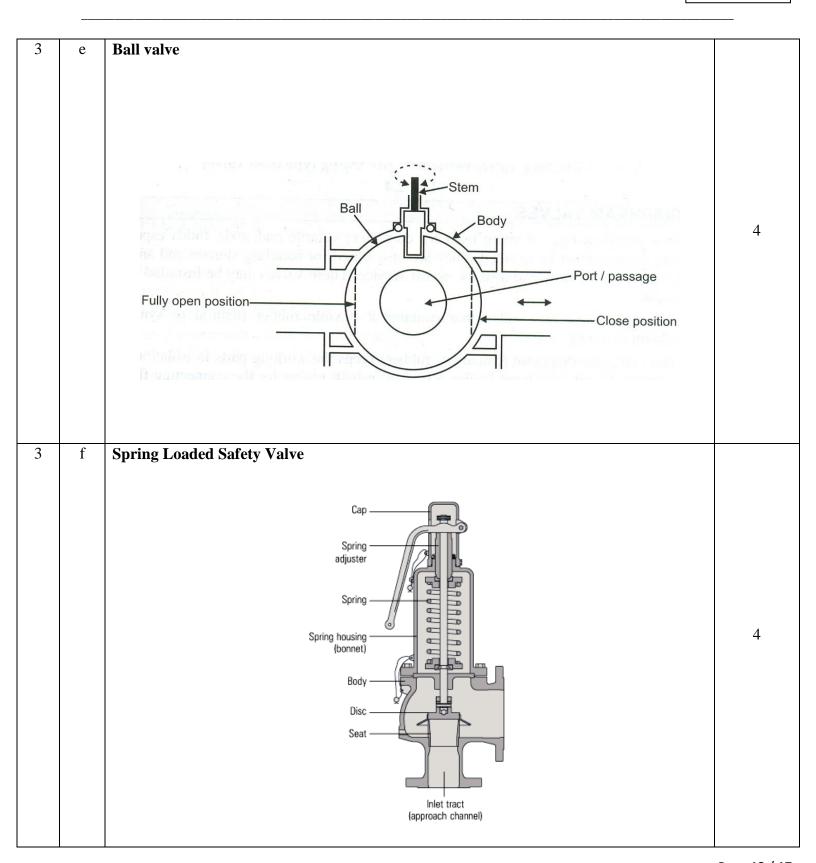
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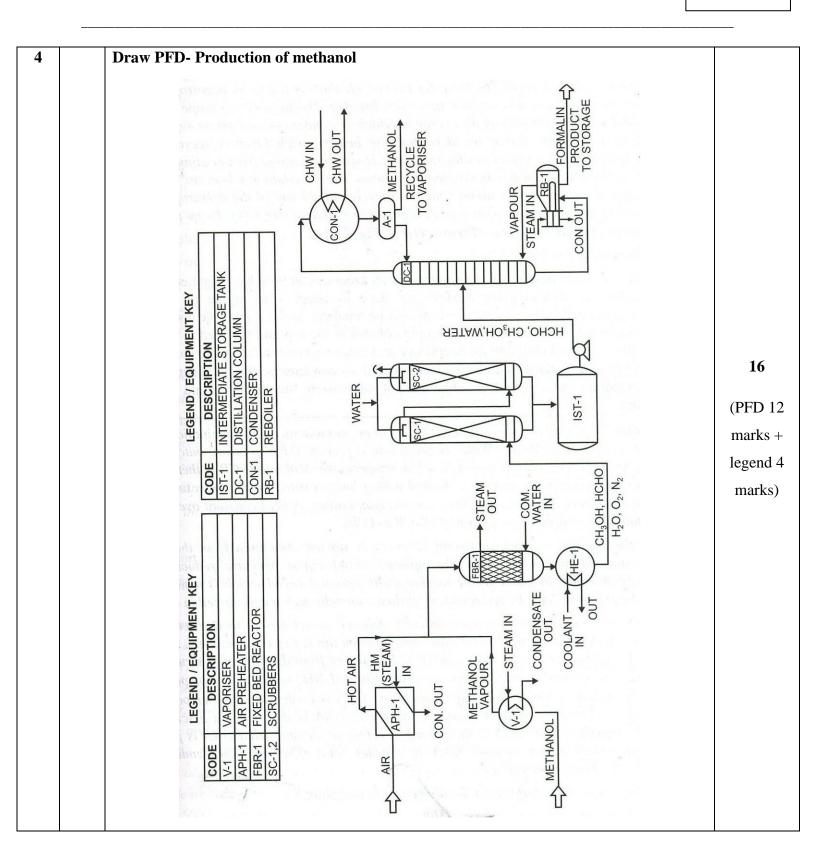
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5	Answer the following	16
a	Draw Utility Line Diagram CHILE DIAMETER CHILL DIAMETER CHILE DIAMETER CHILL DIAMETER CHI	ULD 7 marks + legends mark



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		T	
	b	Draw P&I diagram of distillation Vapor Cooling Water Feed TC Steam	8
6		Answer the following	16
6	a	Draw ELD of Q.4	Equipment layout 7 marks + legends 1 mark

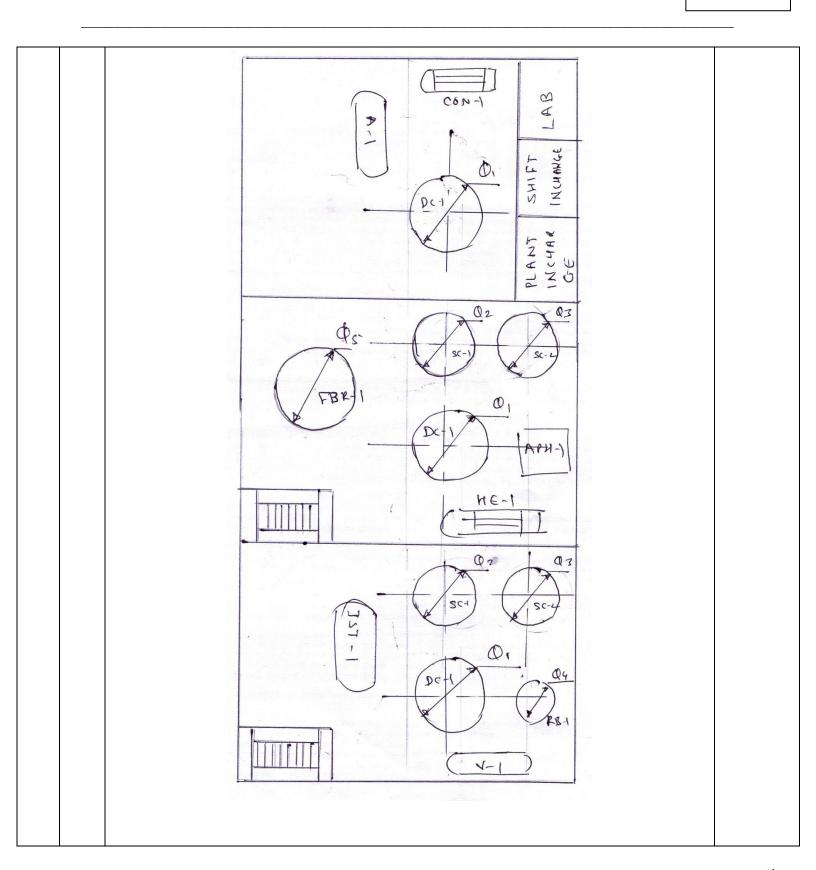


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