5

columns and plate columns.

ii) Contacting devices

Column diameter

ii) Degree of wetting

iii) Pressure drop

Write about.

5. Discuss some salient point about the following

Caustic soda Concentration Type and size of packings

315

Discuss about.

i) Towers

Explain difference between the choice between packed

Total No. of Questions: 8,	l
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Roll No .....

## **MECM-301(A)**

## M.E./M.Tech., III Semester

Examination, November 2018

## **Data Base for Process Plant Design**

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- iii) Assume missing data suitably.

1.	a)	Briefly	explain	design	of shell	and hea	t tube e	xchanger

b) Write about.

- i) 1-2 parallel-counter flow.
- ii) Flow arrangements for increased heat recovery. 3
- 2. a) Discuss about.
  - i) Multiple effect chemical Evaporation.
  - ii) Solution of industrial Problems.
  - b) Explain briefly.
    - i) Concentration of cane sugar liquors-forward feed.
    - ii) Evaporation of paper pulp waste liquors-backward feed.
- Explain about vaporizers and Reboilers.
  - ii) Explain briefly about vaporizing process.
  - b) Explain briefly relation between maximum flux and maximum film coefficient.

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	c) Packed Towers	4
7.	Justify your answer about the following  a) Plate spacing entrainment  b) Foaming tray type	
8.	Explain briefly about hydraulic parameters.	1
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