



7. Explain the different mass transfer equipment and their advantages and disadvantages	3	2			3					3	3		3	
8. Calculating height and diameter of the column , basic design equation, operating line, (HTU) Height of transfer unit, (NTU) Number of transfer unit	3				3						3			

- a. Ability to apply knowledge of math, engineering, and science.
- b. Ability to design and construct experiments.
- c. Ability to design a system, component, or process.
- d. Ability to function on multi-disciplinary teams.
- e. Ability to identify, formulate, and solve engineering problems.
- f. Understanding of professional and ethical responsibility.
- g. Ability to communicate effectively.
- h. ...broad education ... to understand the impact of eng. solutions in a global and societal context.
- i. Recognition of the need for and ability to engage in life-long learning.
- j. Knowledge of contemporary issues.
- k. Ability to use techniques, skills, and modern engineering tools necessary for engineering practice.
- L. Quickly contribute in their focus area.
- M. Team contributors.

**Key: 3: strong 2: moderate 1: weak**