Assignment 10

The due date for submitting this assignment has passed. Due on 2021-03-31, 23:59 HST.

As per your records you have not submitted this assignment.

1. When liquid na2co3 is considered to be as packed columns?
   - I: Height of packed column is very high
   - II: Height of packed columns is small
   - III: Diameter of packed columns is very high
   - IV: All of the above
   - No, the answer is incorrect.
   - Accepted Answer: I: Height of packed column is very high
   - 1 point

2. Stocked packing unit to
   - Allow small size packing to have the column
   - Hold the small size packing
   - Hold the large size packing
   - All of the above
   - No, the answer is incorrect.
   - Accepted Answer: I: Allow small size packing to have the column
   - 1 point

3. Control open feed pipe is recommended for
   - Large diameter columns
   - Very high columns
   - Small diameter columns
   - None of the above
   - No, the answer is incorrect.
   - Accepted Answer: Small diameter columns
   - 1 point

4. Through eye distributor can be used in
   - Large diameter columns
   - Very high columns
   - Small diameter columns
   - None of the above
   - No, the answer is incorrect.
   - Accepted Answer: Large diameter columns
   - 1 point

5. Gas K is removed through packed because when mixture of 3% air enters at 1.5 kgs/m3 in which X has most fraction of 0.2. Gas K is absorbed in feed water stream of 1 kgs/m3. At the outlet 0.002 max fraction of ammonia is set in gas stream. Determine, value of 
   - Mass exit of water 2 kgs/m3
   - Mol. weight of 8.5 and air is 17.25 respectively.
   - Velocities are 15 m/sec in water.
   
   The pressure drop and temperature of air are 500 kgs/m3, 20°C and 30°C, respectively.
   
   Properties at atmospheric temperature: r1 = 1.45 kg/m^3, c1 = 896 kg/m^3·s, c2 = 10^7 kJ/kg·K, c3 = 1.4 x 10^3 kJ/kg·K, D1 = 1.9 x 10^-3 m·s, D2 = 1.3 x 10^-3 m·s
   
   G = (25)
   
   14
   
   18
   
   No, the answer is incorrect.
   - Accepted Answer: 70
   - 2 points

6. For Q No. 5, diameter column is:
   - 1.25 m
   - 1.5 m
   - 2.13 m
   - 2.25 m
   - No, the answer is incorrect.
   - Accepted Answer: 70
   - 2 points

7. In Huikinghe's method limiting factors are considered for
   - Light key components
   - Heavy key components
   - None of the above
   - No, the answer is incorrect.
   - Accepted Answer: Light key components
   - 1 point

8. Pseudo binary method is:
   - McCabe-Thiele method
   - Huekinghe method
   - United States method
   - None of the above
   - No, the answer is incorrect.
   - Accepted Answer: United States method
   - 1 point

9. Underwood's equation is used to compute
   - Minimum number of stages
   - Optimum reflux ratio
   - Minimum reflux ratio
   - Maximum number of stages
   - No, the answer is incorrect.
   - Accepted Answer: Minimum reflux ratio
   - 1 point

10. Current value of is in Underwood's equation should be
    - Between the values of the relative volatility of the light and heavy keys
    - Less than the relative volatility of the light key
    - More than the relative volatility of the heavy key
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: None of the above
    - 1 point

11. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

12. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

13. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

14. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

15. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

16. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

17. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

18. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

19. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

20. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

21. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

22. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

23. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

24. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

25. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

26. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

27. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

28. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

29. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points

30. When partial condenser is used
    - Distillate is obtained in liquid phase
    - Distillate is obtained in vapor phase
    - Rotten is obtained in super phase
    - None of the above
    - No, the answer is incorrect.
    - Accepted Answer: Distillate is obtained in liquid phase
    - 2 points