### Assessment 8

The file at the end of this week's assignment is closed. Apart from your records, you have not submitted this assignment.

#### Part 1: Introduction to Filtration

1. Which of the following is the correct order of steps in the filtration process?
   - a) Placement of filter paper in the funnel
   - b) Formation of a vacuum
   - c) Addition of the suspension
   - d) Filtration
   - e) Closure of the tap
   
   **Correct Answer:** a, b, c, d, e

2. What is the primary purpose of filtration?
   - a) To remove suspended particles
   - b) To separate liquids from solids
   - c) To clarify a solution
   - d) All of the above
   
   **Correct Answer:** d

3. Which statement about filtration is correct?
   - a) Filtration is a physical process.
   - b) Filtration is a chemical process.
   - c) Filtration is a biological process.
   - d) Filtration is a physical and chemical process.
   
   **Correct Answer:** a

#### Part 2: Principles of Filtration

4. Which type of filter is used for the first stage of filtration?
   - a) Cotton filter paper
   - b) Millipore filter paper
   - c) Pore filter paper
   - d) All of the above
   
   **Correct Answer:** d

5. What is the function of a filter aid in filtration?
   - a) To speed up the filtration process
   - b) To prevent the cake from breaking
   - c) To clarify the filtrate
   - d) All of the above
   
   **Correct Answer:** d

6. Which of the following is not a type of filter aid?
   - a) Cotton wool
   - b) Salt
   - c) asbestos
   - d) Glass wool
   
   **Correct Answer:** b

#### Part 3: Foundation of Filtration

7. What is the difference between a vacuum filter and a gravity filter?
   - a) The former is used for solid-liquid separation, while the latter is used for liquid-liquid separation.
   - b) The former is used for liquid-liquid separation, while the latter is used for solid-liquid separation.
   - c) The former is used for the removal of gases, while the latter is used for the removal of solids.
   - d) The former is used for the removal of solids, while the latter is used for the removal of gases.
   
   **Correct Answer:** b

8. What is the purpose of a suction filter?
   - a) To remove the air from the filter cake
   - b) To increase the pressure in the system
   - c) To decrease the pressure in the system
   - d) To increase the temperature in the system
   
   **Correct Answer:** a

9. A filter press is used in which of the following industries?
   - a) Pharmaceutical
   - b) Food processing
   - c) Textiles
   - d) All of the above
   
   **Correct Answer:** d

#### Part 4: Finalization

10. What is the final step in the filtration process?
    - a) Filtration
    - b) Clarification
    - c) Drying
    - d) Coagulation
    
    **Correct Answer:** c

### Additional Information

- **Assessment Instructions:**
  - All the above are correct.

- **Feedback for Assessment:**
  - None of the above.

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**Submit by:** 01/10/2023 11:59 PM