

COOLING TOWERS

Test your knowledge on cooling towers through this quiz with ten multiple choice questions.

Name: _____

Organization: _____

Date: _____

1. The type of cooling towers with maximum heat transfer from air to water is

- a. Natural draft
- b. Mechanical draft
- c. Both a and b
- d. Neither a and b

2. Natural draft cooling towers are mainly used in the

- a. Steel industry
- b. Alumina industry
- c. Fertilizer industry
- d. Power stations

3. A better indicators for cooling tower performance is

- a. Wet bulb temperature
- b. Dry bulb temperature
- c. Range
- d. Approach

4. Cooling tower effectiveness is the ratio of

- a. $\text{Range} / (\text{range} + \text{approach})$
- b. $\text{Approach} / (\text{range} + \text{approach})$
- c. $\text{Range} / \text{Approach}$
- d. $\text{Approach} / \text{Range}$

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5. A cooling tower reduces the water temperature close to

- a. Dry bulb temperature
- b. Ambient wet bulb temperature (WBT)
- c. Dew point temperature
- d. None of the above

6. The ratio of dissolved solids in circulating water to the dissolved solids in make up water is called

- a. Liquid gas ratio
- b. Cycle of concentration
- c. Cooling tower effectiveness
- d. None of the above

7. Which one of the following is true to estimate the range of cooling tower?

- a. Range = Cooling water inlet temperature – Wet bulb temperature
- b. Range = Cooling water outlet temperature – Wet bulb temperature
- c. Range = heat load in kcal per hour / Water circulation in liters per hour
- d. None of the above

8. Which one of the following fill material is more energy efficient for cooling towers in case of seawater cooling?

- a. Splash fill
- b. Film fill
- c. Low clog film fill
- d. None of the above

9. L / G ratio in a cooling tower is the ratio of

- a. Length and girth
- b. Length and temperature gradient
- c. Water flow rate and air mass flow rate
- d. Air mass flow rate and water flow rate

10. Normally the guaranteed best approach a cooling tower can achieve is

- a. 5 °C
- b. 12 °C
- c. 8 °C
- d. 2.8 °C

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ANSWERS				
1. b	2. d	3. d	4. a	5. b
6. b	7. c	8. b	9. c	10. d