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Continuing Education Course #437
Activated Carbon Odor Control Systems

1. What software can help determine the amount of odor removal required?
 - a. Dispersion model
 - b. Hydraulic model
 - c. CFD model
2. Dry adsorption is considered what type of treatment system?
 - a. Physical
 - b. Chemical
 - c. Biological
3. Which is NOT an advantage of an activated carbon system?
 - a. Reliability
 - b. Simplicity
 - c. Media replacement frequency
4. Does activated carbon utilize adsorption or absorption?
 - a. Absorption
 - b. Adsorption
 - c. Both
5. Do water molecules normally attach to activated carbon?
 - a. Yes
 - b. No
 - c. Only at high pressure
6. What can improve adsorption performance?
 - a. Increasing the odor concentration
 - b. Increasing the air temperature
 - c. Increasing surface area
7. What is the recommended maximum relative humidity for an activated carbon system?
 - a. 50%
 - b. 75%
 - c. 100%
8. Which can be added to decrease humidity?
 - a. Mist eliminator
 - b. Humidifier
 - c. Chemicals

9. What happens to the odor removal performance of activated carbon as temperatures increase?
- a. Increases
 - b. Decreases
 - c. No change
10. What does GAC stand for?
- a. Granular activated carbon
 - b. Genuine activated carbon
 - c. Galvanized activated carbon
11. What is a common term for removal capacity?
- a. Media strength
 - b. Bulk removal
 - c. Breakthrough capacity
12. Which is NOT an option for restoring the removal capacity of activated carbon?
- a. Reactivation
 - b. Rejuvenation
 - c. Regeneration
13. Which are criteria for media bed sizing?
- a. Face velocity, contact time, media life, and pressure drop
 - b. Redundancy, contact time, media life, and pressure drop
 - c. Face velocity, contact time, media life, and temperature drop
14. What is the formula for contact time?
- a. Bed volume / air flow rate
 - b. Bed void space / air flow rate
 - c. Bed volume / air velocity
15. Which is a typical contact time when the hydrogen sulfide concentration is less than 100 ppm?
- a. 1 seconds
 - b. 3 seconds
 - c. 10 seconds
16. Which is a typical face velocity for an activated carbon system?
- a. 5 fpm
 - b. 15 fpm
 - c. 50 fpm
17. Which is the most difficult to calculate?
- a. Face velocity
 - b. Contact time
 - c. Media life
18. Which is the most common bed configuration?
- a. Vertical
 - b. Horizontal
 - c. Radial
19. Which is an advantage to a radial bed configuration?

- a. Auto regeneration
- b. Small footprint
- c. Change media by hand

20. What is the formula for calculating lifecycle cost?

- a. Lifecycle Cost = Capital Cost + Annual Maintenance * Years
- b. Lifecycle Cost = Capital Cost + Annual Maintenance * PWF - Salvage Value
- c. Lifecycle Cost = Capital Cost + Annual Maintenance - Salvage Value

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