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Continuing Education Course #473
Oil and Grease Removal

1. What does FOG stand for?
 - a. Food, oil, and grease
 - b. Fat, oil, and grease
 - c. Foodstuff, oil, and grease
2. Which is NOT a reason that FOG became problematic in early collection systems?
 - a. Oil based products became increasingly popular
 - b. FOG can harden when it warms
 - c. FOG can harden when it cools
3. What is the name of the first device used to contain FOG?
 - a. Grease Trap
 - b. Grease Interceptor
 - c. Oil Water Separator
4. What helped raise awareness of the harm of releasing oil waste into natural areas?
 - a. Health problems from fatty foods
 - b. WWII
 - c. Oil spills
5. What is HEM?
 - a. Hexane Extractable Material
 - b. Half Extracted Material
 - c. Heat Elevated Material
6. What is SGT-HEM?
 - a. Polar O&G
 - b. Non-polar O&G
 - c. Neutral O&G
7. Which industry typically discharges the highest concentration of O&G?
 - a. Textile
 - b. Metals Fabrication
 - c. Laundry Mats
8. What is another term for a grease trap?
 - a. Gravity grease interceptor
 - b. P-trap
 - c. Hydromechanical grease interceptor

9. What type of pollutant is O&G?

- a. Conventional
- b. Priority
- c. Nonconventional

10. What is a typical O&G limit in mg/L for indirect discharge?

- a. 20
- b. 100
- c. 500

11. What is the pounds formula?

- a. $\text{lb/d} = \text{mg/L} * \text{MGD} * 8.34$
- b. $\text{lb/d} = \text{mg/L} * \text{gpm} * 8.34$
- c. $\text{lb/d} = \text{mg/L} * \text{MGD} * 4.83$

12. Which is the easiest form of oil to remove?

- a. Dissolved
- b. Emulsified
- c. Free

13. What do emulsifiers do?

- a. Separate oil particles
- b. Suspend oil particles
- c. Dissolve oil particles

14. Which normally has the smallest molecules?

- a. Dissolved
- b. Emulsified
- c. Free

15. Which is the main form of oil targeted by an Oil Skimmer?

- a. Free
- b. Emulsified
- c. Dissolved

16. Which is the main form of oil targeted by Adsorption?

- a. Free
- b. Emulsified
- c. Dissolved

17. Which is the main form of oil targeted by pH Adjustment?

- a. Free
- b. Emulsified
- c. Dissolved

18. Which feature is commonly added to an Oil Water Separator to enhance oil removal?

- a. Bentonite powder
- b. Coalescing media
- c. Recycle pump

19. Which industry commonly uses an API Separator?

- a. Oil refineries
- b. Restaurants
- c. Food processing

20. Which method is the most common for sizing a gravity grease interceptor?

- a. No. of meals & dishwashers
- b. Minimum volume
- c. 30 minutes at peak flow

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