

**Final Exam**  
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