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Continuing Education Course #525
PFAS in Drinking Water

1. Which is NOT another name for PFAS?
 - a. PFASs
 - b. Endless elements
 - c. Persistent organic pollutants
 - d. Forever chemicals
2. In what type of animals does PFAS accumulate the most?
 - a. Bottom of food chain
 - b. Middle of food chain
 - c. Top of food chain
3. Which organs are known to have problems from ingesting PFAS?
 - a. Liver and Kidney
 - b. Lungs and Skin
 - c. Bones and Teeth
4. When was the first PFAS chemistry created?
 - a. 1920
 - b. 1938
 - c. 1955
 - d. 1960
5. What event in 1967 resulted in AFFF use on Navy vessels?
 - a. Deadly fire killed 134 sailors
 - b. Congress passed an AFFF law
 - c. Fire stations tested AFFF
6. Which two PFAS were highlighted in the first USEPA health advisory on PFAS?
 - a. PFNA and PFNS
 - b. PFOA and GenX
 - c. PFOS and PFOA
7. Which PFAS is not included in the USEPA 2024 NPDWR MCLs?
 - a. PFOA
 - b. PFEESA
 - c. PFOS
 - d. PFBS
8. What is NOT another name for PFCAs?

- a. Perfluoroalkyl carboxylic acids
- b. Carboxylates
- c. Sulfonates

9. Which are the most regulated forms of PFAS?

- a. Short-chain
- b. Long-chain
- c. Polymer

10. What is the PFOS limit in the USEPA 2024 NPDWR MCLs?

- a. 0.4 ppt
- b. 1.0 ppt
- c. 4.0 ppt
- d. 4.0 ppb

11. What is the PFOA limit in the USEPA 2024 NPDWR MCLs?

- a. 0.4 ppt
- b. 1.0 ppt
- c. 4.0 ppt
- d. 4.0 ppb

12. Which state has mandatory MCLs for PFAS?

- a. Arkansas
- b. Massachusetts
- c. Ohio

13. Which state has the lowest mandatory MCL for PFOA?

- a. California
- b. Hawaii
- c. Michigan
- d. New York

14. Which PFAS is the most toxic according to the Hazard Index?

- a. PFNA
- b. PFHxS
- c. PFBS
- d. GenX

15. Which EPA Test Method for potable water targets short-chain PFAS?

- a. 533
- b. 537.1
- c. 1633

16. Which is an adsorption technique for PFAS removal?

- a. Ion Exchange
- b. Membranes
- c. GAC

17. What type of ion exchange resin can target PFAS?

- a. Cation
- b. Anion

c. Inert

18. Which has smaller openings?

a. Ultrafiltration

b. Nanofiltration

c. Reverse Osmosis

19. Which is the correct lifecycle cost formula?

a. Capital Cost + O&M*PWF - Salvage Value

b. Capital Cost + O&M*PWF

c. Capital Cost + O&M Cost - Salvage Value

20. Which PFAS destruction technique can be in conjunction with landfill solid waste?

a. AOP/ARP

b. Incineration

c. Non-thermal plasma (NTP)

d. Sonochemical processing

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