



Department of Civil Engineering
EN8592 – WASTEWATER ENGINEERING
Unit II - MCQ Bank

1. Screening and comminution are preliminary treatment processes.

a) True

b) False

Answer: (a)

2. _____ devices remove materials which would damage equipment or interfere with a process.

a) Grit

b) Screening

c) Oxidation

d) Reduction

Answer: (b)

3. _____ represents the heavier inert matter in wastewater.

a) Debris

b) Waste

c) Screens

d) Grit

Answer: (d)

4. Supplemental means of aeration are often employed with an equalization basin to provide better mixing.

a) True

b) False

Answer: (a)

5. Which of the following should be provided in the case where aeration is absent?

- a) Screening devices
- b) Mechanical mixers**
- c) Grit removers
- d) Sedimentation tank

Answer: (b)

6. Which process is employed to gain sufficient head for the wastewater?

- a) Screening
- b) Pumping**
- c) Oxidation
- d) Fermentation

Answer: (b)

7. What is the most common used coagulant?

- a) Alum**
- b) Ferric sulphate
- c) Limestone
- d) Coal

Answer: (a)

8. What is the intermediate zone composed of in aerobic-anaerobic ponds?

- a) Algae
- b) Aerobic bacteria
- c) Facultative bacteria**
- d) Organic solids

Answer: (c)

9. Nitrification efficiency is significantly suppressed as the temperature is _____

- a) Increased
- b) Decreased**
- c) Neutral
- d) Maintained

Answer: (B)

10. _____ is a process which involves further removal of the nitrogen.

- a) Nitrification
- b) Denitrification**
- c) Ammonification
- d) Reduction

Answer: (b)

11. In rotating biological contractors, what percent of corrugated plastic discs are submerged?

- a) 20
- b) 50
- c) 80
- d) 40**

Answer: (d)

12. Organic contaminants are removed from the wastewater by _____

- a) Water softening
- b) Demineralization
- c) Absorption
- d) Adsorption**

Answer: (d)

13. By which process, odor producing substances are oxidized?

- a) Chlorination
- b) Liming
- c) Re-carbonation

d) Super-chlorination

Answer: (d)

14. Which of the following process is used to remove the colloidal particles from the effluent?

- a) Chemical precipitation
- b) Chemical coagulation**
- c) Ion exchange
- d) Adsorption

Answer: (b)

15. In which form of solute stabilization, hydrogen sulfide in the effluent is oxidized into sulfate?

- a) Chlorination**
- b) Liming
- c) Re-carbonation
- d) Super-chlorination

Answer: (a)

16. A grit chamber is usually installed _____ primary sedimentation tanks.

- a) Before**
- b) After
- c) In between
- d) In

Answer: (a)

17. Grit chambers are constructed to prevent their accumulation in _____

- a) Sedimentation tank
- b) Sludge digesters**
- c) Coagulation tank
- d) Sand filter

Answer: (b)

18. Grit chamber is similar to which of the following?

- a) Screening unit
- b) Sedimentation tank**
- c) Coagulation tank
- d) Sand bed

Answer: (b)

19. With respect to the operation which of these screens is the most expensive?

- a) Chain driven
- b) Continuous belt**
- c) Catenary
- d) Reciprocating

Answer: (b)

20. Which of these type of screen can be used both as a fine and coarse screen?

- a) Continuous belt**
- b) Catenary
- c) Reciprocating
- d) Chain driven

Answer: (a)

21. Which of the following materials is not used in the construction of a septic tank?

- a) Concrete
- b) Rubber**
- c) Fibreglass
- d) Plastic

Answer: (b)

22. The scum formed in the tank _____

- a) Flows
- b) Gets dissolved
- c) Sink into the bottom
- d) Floats on top**

Answer: (d)

23. During the disposal of the sludge, it must be _____

- a) Liquefied
- b) Dried**
- c) Burned
- d) Fluidized

Answer: (b)

24. What is the amount of water used per person per day for flushing?

- a) 2-3 L
- b) 3-10 L
- c) 4-30 L
- d) 5-40 L**

Answer: (d)

25. Which of the following reasons is correct with respect to the need of providing baffle walls?

- a) Mixing of scum and wastewater
- b) Settling of heavy particles
- c) Increase velocity of the liquid
- d) Prevent scum and solids from escaping**

Answer: (d)