Unit 11 – Week 9

Assignment 9

Due on 2019-10-06, 22:59:07.

1. A 90% of the 1500 kg of the sludge sample is removed in 1-day batch size of 300 kg. How many 1-day lots of sludge can be processed?
   - 5
   - 10
   - 15
   - 20

2. Average standard BOD of domestic sewage is about
   a. 100 mg/L
   b. 200 mg/L
   c. 300 mg/L
   d. None of the above

3. Which of the following treatment techniques isn’t a preliminary treatment of wastewater?
   a. Screening
   b. Flocculation
   c. Sedimentation
   d. None of the above

4. Which of the following treatment techniques is used to remove oil and grease from wastewater?
   a. Microscreen
   b. Pressure screen
   c. Oil skimmer
   d. None of the above

5. What is the function of a sewage treatment plant?
   a. Waste disposal
   b. Water treatment and disposal
   c. Water purification
   d. None of the above

6. Which of the following an anaerobic treatment unit(s)?
   a. Septic tank
   b. Aeration tank
   c. Anaerobic digester process
   d. None of the above

7. Which of the following is a mechanical treatment?
   a. Flocculation
   b. Sedimentation
   c. Chemical treatment
   d. None of the above

8. Which of the following is a chemical treatment?
   a. Flocculation
   b. sedimentation
   c. Chemical treatment
   d. None of the above

9. What is the function of a sewage treatment plant?
   a. Waste disposal
   b. Water treatment and disposal
   c. Water purification
   d. None of the above

10. Which of the following is a biological treatment?
    a. Aerobic treatment
    b. Anaerobic treatment
    c. None of the above
    d. All of the above

11. The primary component of a septic tank is a tank with a storage volume of 7 million liters. The auxiliary tank has a volume of 200 million liters. What is the percentage contribution of the auxiliary tank in the total?
    a. 6.5%
    b. 4.5%
    c. 2.5%
    d. None of the above

12. Osmosis is a phenomenon of salinity water.
    a. Yes
    b. False
    c. None of the above
    d. All of the above

13. The moisture content of a sludge is reduced from 95% to 5% in a sludge digestion tank. What is the percentage volume of the sludge?
    a. 40%
    b. 50%
    c. 7%
    d. 75%