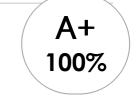
Quizlet

19 Multiple choice questions

- 1. the process by which chemicals and other particles are attracted to and held by a solid surface
 - a. flocculation
 - b. coagulation
 - c. CORRECT: adsorption
 - d. allotrope



- 2. an underground rock formation through which ground water can easily percolate; sandstone, gravel beds and jointed limestone make good aquifers
 - a. flocs
 - b. halogen
 - c. CORRECT: aquifer
 - d. coliform
- 3. a micro-organism occurring in the gut of warm-blooded animals; its cysts are more resistant to disinfection than are bacteria or viruses
 - a. coliform
 - b. CORRECT: cryptosporidium
 - c. coagulation
 - d. adsorption
- 4. the process of adding coagulants (chemicals or a mixture of chemicals) to cause particles that are slow to settle or are non-settling to settle out more readily; the coagulant reacts with the particles in the water, forming larger particles called flocs that settle out rapidly
 - a. adsorption
 - b. **CORRECT:** coagulation
 - c. coliform
 - d. flocculation

- 5. luminescence caused by a chemical reaction, usually oxidation; the molecules are excited to a high energy level and emit light as they return to the ground state
 - a. halogen
 - b. coagulation
 - c. haloalkane
 - d. CORRECT: chemiluminescence
- 6. a derivative of an alkane where one or more hydrogen atoms have been replaced by a halogen such as fluorine, chlorine, bromine or iodine
 - a. flocs
 - b. halogen
 - c. allotrope
 - d. CORRECT: haloalkane
- 7. a qualitative test for cations where a clean platinum wire mounted in a glass holder is dipped into the sample to be tested and then held in a non-luminous Bunsen flame; many cations burn with distinctive colour
 - a. aquifer
 - b. CORRECT: flame test
 - c. flocs
 - d. halogen
- 8. the process by which lakes and streams become enriched by dissolved nutrients, such as phosphates and nitrates found in fertilisers; this can result in an increased growth of algae in these waterways and a corresponding drop in dissolved oxygen; this condition can be harmful to other life forms living in these waters
 - a. **CORRECT:** eutrophication
 - b. coagulation
 - c. adsorption
 - d. flocculation
- 9. one of several structural forms of the same element in the same state; for example, diamond, graphite and fullerenes are allotropes
 - a. haloalkane
 - b. halogen
 - c. CORRECT: allotrope
 - d. adsorption

- 10. a covalent bond that has formed when one atom provides both electrons to form the shared bonding pair
 - a. CORRECT: coordinate covalent bond
 - b. chlorofluorocarbon
 - c. coagulation
 - d. complete combustion
- 11. decomposition without oxygen; many bacteria can carry out respiration without using oxygen; decomposition under these conditions produces gases and other wastes that would not be present in aerobic decomposition
 - a. **CORRECT:** anaerobic decomposition
 - b. adsorption
 - c. complete combustion
 - d. flocculation
- 12. is K; when equilibrium is reached the concentration of reactants and products has no tendency to change; the concentrations of the products are written in the numerator and the concentrations of the reactants are written in the denominator; the larger value of K, the more the reactants react together to form product
 - a. CORRECT: equilibrium constant
 - b. eutrophication
 - c. aquifer
 - d. flame test
- 13. the gentle mixing of chemicals with water containing suspended particles to trap colloidal particles such as mud; the chemicals join tiny particles of dirt, micro-organisms, and fine suspended matter so that they can be more easily filtered out; the larger particles formed can be filtered
 - a. adsorption
 - b. eutrophication
 - c. CORRECT: flocculation
 - d. coagulation
- 14. larger particles formed during coagulation; they settle out rapidly and can be effectively removed by passing water through a filter; the process is controlled so that the coagulant chemicals are removed along with the contaminants
 - a. **CORRECT:** flocs
 - b. coliform
 - c. halogen
 - d. allotrope

- 15. a type of bacteria found in raw water; coliforms are used as a microbiological indicator for the possible presence of other disease-producing organisms arising from faecal contamination; they are measured in colony forming units (CFU); a CFU is the number of bacterial cells, or clumps of cells, that can be developed into a colony when grown under laboratory conditions; coliforms are killed by chlorine
 - a. CORRECT: coliform
 - b. allotrope
 - c. flocs
 - d. aquifer
- 16. a highly reactive non-metal in group VII of the periodic table; they include the elements fluorine, chlorine, bromine, iodine and astatine
 - a. aquifer
 - b. CORRECT: halogen
 - c. flocs
 - d. haloalkane
- 17. a compound containing carbon, chlorine and fluorine
 - a. flocculation
 - b. eutrophication
 - c. CORRECT: chlorofluorocarbon
 - d. coagulation
- 18. the chemical combination of hydrogen and nitrogen gases in the presence of a catalyst, and under high temperatures and pressures, to form ammonia
 - a. flame test
 - b. **CORRECT:** haber process
 - c. halogen
 - d. allotrope
- 19. when a hydrocarbon burns in a plentiful oxygen supply and the combustion products are carbon dioxide and water
 - a. CORRECT: complete combustion
 - b. eutrophication
 - c. flocculation
 - d. coagulation