

20 Multiple choice questions

- becoming liquid by absorbing moisture from the air
 - desiccant
 - emulsion
 - deliquescent
 - flocculent
- a desiccating agent; a chemical that removes water
 - deliquescent
 - cassia
 - desiccant
 - flocculent
- the adhesion molecules of a fluid to a solid surface; the degree of absorption depends on temperature, pressure and the surface area; the forces binding the fluid may be chemical or physical
 - emulsion
 - adsorption
 - caustic
 - dissociation
- a tough, fibrous protein that is a major component of connective tissues of many animals; animal hide is chiefly collagen, converted by tanning into leather
 - coal tar
 - emulsion
 - collagen
 - celluloid
- a chemical system which neither gains nor loses mass; it does not necessarily mean that it is physically closed
 - coal tar
 - closed systems
 - Frasch process
 - collagen

6. a dense black viscous liquid produced by the destructive distillation of coal; fractional distillation of coal tar produces a wide variety of industrially important substances
 - a. collagen
 - b. coal tar
 - c. caustic
 - d. cassia

7. a method for extracting sulfur from underground sulfur deposits
 - a. flocculent
 - b. Frasch process
 - c. closed systems
 - d. contact process

8. the first commercial synthetic plastic developed in 1869; it is tough, strong and resistant to water, oils and dilute acids and thermoplastic; being highly inflammable it has now been replaced by other plastics
 - a. celluloid
 - b. emulsion
 - c. caustic
 - d. collagen

9. a dynamic chemical state in which reactions proceed in both directions, forward and reverse, their rates being equal; macroscopically the concentrations of reactants and products remain the same
 - a. equilibrium
 - b. caustic
 - c. exothermic
 - d. emulsion

10. a synthetic resin made by the chemical reaction of formaldehyde and phenol; it is a thermosetting plastic and a hard, strong material used as an electrical insulator, an adhesive and a paint binder
 - a. caustic
 - b. bakelite
 - c. cassia
 - d. emulsion

11. the manufacture of sulfuric acid from sulfur trioxide using a catalyst; it is so named because the gases need to be in contact with the catalyst
 - a. coal tar
 - b. Frasch process
 - c. collagen
 - d. contact process

12. a substance that burns or destroys flesh
- coal tar
 - cassia
 - bakelite
 - caustic
13. an evergreen tree related to cinnamon
- caustic
 - cassia
 - emulsion
 - coal tar
14. being able to be broken down in the environment by organisms
- collagen
 - bakelite
 - biodegradable
 - desiccant
15. a numerical ratio, K, where $K = \frac{\text{products}}{\text{reactants}}$ and indicates the relative amounts of reactants and products in an equilibrium reaction
- emulsion
 - deliquescent
 - equilibrium constant
 - equilibrium
16. the dispersion of small droplets of one liquid in another
- celluloid
 - caustic
 - emulsion
 - cassia
17. a reaction in which heat is taken during the reaction; the containment vessel cools down
- exothermic
 - endothermic
 - caustic
 - equilibrium

18. a reaction in which heat is given out during the reaction; the containment vessel heat up
- endothermic
 - exothermic
 - bakelite
 - caustic
19. like tufts of wool
- deliquescent
 - desiccant
 - collagen
 - flocculent
20. when a substance dissolves and ions that exist in the ionic substance are released
- cassia
 - dissociation
 - adsorption
 - desiccant