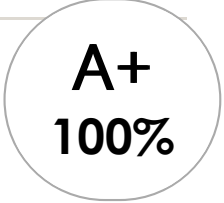


## 20 Multiple choice questions



**A+**  
**100%**

1. becoming liquid by absorbing moisture from the air
  - a. desiccant
  - b. emulsion
  - c. **CORRECT: deliquescent**
  - d. flocculent
  
2. a desiccating agent; a chemical that removes water
  - a. deliquescent
  - b. cassia
  - c. **CORRECT: desiccant**
  - d. flocculent
  
3. 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
  - a. emulsion
  - b. **CORRECT: adsorption**
  - c. caustic
  - d. dissociation
  
4. 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
  - a. coal tar
  - b. emulsion
  - c. **CORRECT: collagen**
  - d. celluloid
  
5. a chemical system which neither gains nor loses mass; it does not necessarily mean that it is physically closed
  - a. coal tar
  - b. **CORRECT: closed systems**
  - c. Frasch process
  - d. 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
- collagen
  - CORRECT: coal tar**
  - caustic
  - cassia
7. a method for extracting sulfur from underground sulfur deposits
- flocculent
  - CORRECT: Frasch process**
  - closed systems
  - 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is tough, strong and resistant to water, oils and dilute acids and thermoplastic; being highly inflammable it has now been replaced by other plastics
- CORRECT: celluloid**
  - emulsion
  - caustic
  - 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
- CORRECT: equilibrium**
  - caustic
  - exothermic
  - 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
- caustic
  - CORRECT: bakelite**
  - cassia
  - 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
- coal tar
  - Frasch process
  - collagen
  - CORRECT: contact process**
12. a substance that burns or destroys flesh
- coal tar
  - cassia
  - bakelite
  - CORRECT: caustic**
13. an evergreen tree related to cinnamon
- caustic
  - CORRECT: cassia**
  - emulsion
  - coal tar
14. being able to be broken down in the environment by organisms
- collagen
  - bakelite
  - CORRECT: 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
  - CORRECT: equilibrium constant**
  - equilibrium

16. the dispersion of small droplets of one liquid in another
- celluloid
  - caustic
  - CORRECT: emulsion**
  - cassia
17. a reaction in which heat is taken during the reaction; the containment vessel cools down
- exothermic
  - CORRECT: endothermic**
  - caustic
  - equilibrium
18. a reaction in which heat is given out during the reaction; the containment vessel heat up
- endothermic
  - CORRECT: exothermic**
  - bakelite
  - caustic
19. like tufts of wool
- deliquescent
  - desiccant
  - collagen
  - CORRECT: flocculent**
20. when a substance dissolves and ions that exist in the ionic substance are released
- cassia
  - CORRECT: dissociation**
  - adsorption
  - desiccant