

1. The type of glass used in making lenses and prisms is?

- (a) soft glass
- (b) pyrex glass
- (c) jena glass
- (d) flint glass

2. Wood is the main raw material for the manufacture of ?

- (a) paint
- (b) paper
- (c) ink
- (d) gun powder

3. How does common salt help in separating soap from the solution after saponification?

- (a) By decreasing solubility of soap
- (b) By increasing solubility of soap
- (c) By decreasing density of soap
- (d) By increasing density of soap

4. Which of the following is commonly called a 'polyamide'?

- (a) Rayon
- (b) orlon
- (c) Terylene
- (d) Nylon

5. The major ingredient of leather is ?

- (a) carbohydrate
- (b) collagen
- (c) polymer
- (d) nucleic acid

6. In the manufacture of safety matches, which of the following materials are used to coat the two sides of match boxes?

- 1. Yellow phosphorus
- 2. Glue
- 3. Glass powder
- 4. Red phosphorus

- (a) 1, 2 and 3
- (b) 1,3 and 4
- (c) 1,2 and 4
- (d) 2,3and4

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7. Glass is made of the mixture of ?

- (a) quartz and mica
- (b) sand and salt
- (c) sand and silicates
- (d) None of these

8. Epoxy resins are used as

- (a) moth repellants
- (b) insecticides
- (c) detergents
- (d) adhesives

9. What is condensation?

- (a) Change of gas into solid
- (b) Change of solid into liquid
- (c) Change of vapour into liquid
- (d) Change of heat energy into cooling energy

10. Which of the following are true regarding a catalyst?

- 1. It is a substance which increases the rate of reaction.
 - 2. It is a substance which reduces the activation energy.
 - 3. It is a substance which increases the activation energy.
 - 4. It is a substance which is consumed in the reaction.
- (a) 1 and 2
 - (b) 2 and 3
 - (c) 3 and 4
 - (d) 1 and 4

11. Which of the following is a physical change?

- (a) Oxidation
- (b) Reduction
- (c) Sublimation
- (d) Decomposition

12. A substance which changes readily into vapour without heating is called ?

- (a) efflorescent
- (b) synthetic
- (c) volatile
- (d) effervescent

13. Catalytic properties of a substance may be best defined as a phenomenon of ?

- (a) Absorption
- (b) Chemisorption
- (c) Adsorption
- (d) None of these

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14. In which of the following processes light energy is converted into chemical energy?

- (a) Respiration
- (b) Fermentation
- (c) Photosynthesis
- (d) Photorespiration

15. Photosynthesis is?

- (a) an exothermic process
- (b) an endothermic process
- (c) a neutral process
- (d) a thermostatic process

16. Combustion is the process in which ?

- (a) heat is produced.
- (b) light is produced.
- (c) heat and light are produced.
- (d) None of these

17. The chemical used as a 'fixer' in photography is

- (a) borax
- (b) sodium thiosulphate
- (c) sodium sulphate
- (d) ammonium persulphate

18. The rate of chemical reaction does not depend upon ?

- (a) Concentration
- (b) Catalyst
- (c) Temperature
- (d) Pressure

19. Which of the following is a chemical change?

- (a) Magnetisation of iron
- (b) Melting of ice
- (c) Burning of sulphur
- (d) Melting of wax

20. Which of the following substances undergoes chemical change on heating?

- (a) Sodium chloride
- (b) Silica
- (c) Lead nitrate
- (d) Platinum wire

Answers: 1 d 2 b 3 a 4 d 5 b 6 c 7 c 8 d 9 c 10 a 11 c 12 c 13 c 14 c 15 b 16 c 17 b 18 d 19 c 20 c