

# 9<sup>TH</sup> CBSE SCIENCE IS MATTER AROUND US PURE MCQS TEST

- 1) Which one of the following may be termed as pure substance?  
(a) Sodium chloride (b) Soft drink (c) Aerosol (d) Soil
- 2) select a heterogeneous mixture of the following:  
(a) Air (b) NaCl in water (c) Emulsion (d) Alloy
- 3) Select a compound out of the following:  
(a) Air (b) Solution (c) marble (d) Stainless steel
- 4) Which one of the following is a chemical change?  
(a) Evaporation of spirit (b) Freezing of water (c) Heating of copper and sulphur  
(d) Mixing of  $H_2$  and  $O_2$
- 5) A colloidal solution is:  
(a) homogeneous mixture (b) heterogeneous and transparent mixture  
(c) heterogeneous mixture in which particles can be seen with naked eyes  
(d) heterogeneous mixture in which particles cannot be seen with naked eyes

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- 6) A mixture of ammonium chloride and sand can be separated by  
(a) decantation (b) centrifugation (c) sublimation (d) evaporation
- 7) Which of the following properties is not characteristic of colloidal particles?  
(a) particles are uniformly distributed throughout the solution  
(b) particles from their solution cannot be separated by centrifugation  
(c) particles do not settle down when left undisturbed  
(d) particles scatter the beam of visible light
- 8) Take 5gm each of iron filings and sulphur in a china dish, state which activity gives a compound.  
(a) Mix and crush the mixture (b) Add carbon disulphide, stir well and filter  
(c) Heat strongly till red hot while mixing (d) Separate iron filings with the help of a magnet
- 9) Shaving cream is a colloidal solution of \_\_\_\_\_  
(a) gas in liquid (b) liquid in liquid (c) solid in liquid (d) gas in solid
- 10) Cloud is an example of \_\_\_\_\_  
(a) solid dispersed in a gas (b) liquid dispersed in a gas (c) liquid dispersed in a solid  
(d) solid dispersed in a gas

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- 11) When a ray of light passes through a solution and it is not visible, then the solution has  
(a) particles smaller than  $10^{-9}$  meter in diameter (b) particles are colloidal  
(c) particles are a suspension (d) particles are of the order of  $10^{-7}$  meter in diameter
- 12) The solubility of a salt in water is 20 g/100 g at  $25^{\circ}\text{C}$ . It increases 10% for every  $5^{\circ}\text{C}$  rise of temperature up to  $50^{\circ}\text{C}$  and then becomes constant. A solution of 26 g of the same salt in 100 g of water at  $35^{\circ}\text{C}$  would be  
(a) saturated (b) unsaturated (c) translucent (d) colloidal
- 13) Take the statement which is not correct:  
(a) When a beam of light is passed through a colloidal solution, the path of light gets illuminated.  
(b) When an electric current is passed through a colloidal solution, colloidal particles move towards the same charged electrodes.  
(c) When an electric current is passed through a colloidal solution, colloidal particles move towards the oppositely charged electrodes.  
(d) When an electric current is passed through an electrolyte solution, particles move towards the oppositely charged electrodes.
- 14) Which of the following is a physical change?  
(a) Electric current is passed through water  
(b) electric current is passed through a bulb and it glows (c) Burning of a candle  
(d) Making of curd from milk

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- 15) Fog, clouds are an example of\_\_\_\_\_
- (a) aerosol (b) colloid (c) suspension (d) emulsion
- 16) Sponge can be compressed, it is a\_\_\_\_\_
- (a) solid (b) liquid (c) gas (d) foam
- 17) An impure sample of potash alum can be purified by\_\_\_\_\_
- (a) evaporation (b) crystallisation (c) centrifugation (d) filtration
- 18) Chalk dissolved in water is an example of\_\_\_\_\_
- (a) true solution (b) colloid (c) suspension (d) saturated solution
- 19) 50 gm sugar is dissolved in a glass of water at 30°C. On heating this solution it will\_\_\_\_\_
- (a) crystallise (b) evaporate (c) become unsaturated (d) sugar will char
- 20) Which of the following shows tyndall effects?
- (a) salt solution (b) sugar solution (c) starch solution (d) copper sulphate solution

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- 21) Pick up the odd one out.  
(a) brass (b) air (c) sand (d) graphite
- 22) Which of the following is liquid-liquid solution?  
(a) face-cream (b) emulsion (c) milk (d) all of these
- 23) To separate two miscible liquids by fractional distillation, it should have one of the following condition\_\_\_\_\_
- (a) should be miscible (b) should be immiscible  
(c) difference in the boiling point should be less than 25 K (d) none of these
- 24) To obtain toned and double toned milk from full-cream milk we can\_\_\_\_\_
- (a) filtrate it (b) sediment it (c) distillate it (d) centrifuge it
- 25) The separation technique which involves the difference in their densities is\_\_\_\_\_
- (a) sublimation (b) separation by separating funnel (c) centrifugation (d) both (b) and (c)

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