

Paints, milk of magnesia

Colloids

Soap solution, milk

Q52. How can you justify that milk is colloid?

Ans. Milk is colloid because it shows tyndall effect.

Multiple Choice Questions

- Butter is example of solution
(a) Gas-gas
(c) solid-solid
- Sea water is a source of naturally occurring elements
(a) 18 (b) 92
(c) 118 (d) 95
- Brass is a solid solution of Zn and
(b) Sn
(d) cu
- Brass and Bronze are considered
(a) Compounds (b) mixtures
(c) Elements
- In soft drink CO₂ is
(a) Solvent
(c) Solution
- Which salt supersaturated solution
(a) Na₂SO₄ (b) NaCl
(c) Na₂SO₄ (d) NaHSO₄
- Air is a example of solution
(a) gas in liquid
(c) gas in gas
- Hydrogen absorbed in palladium is example of solution
(a) solid in gas (b)
(c) gas in gas (d)
- Example of liquid-gas solution is
(a) Mist (b) fog
(c) air pollutants (d) All of
- Example of liquid in solid
(a) Butter (b) Cheese
(c) both a and b (d) none of these
- Smoke in air is example of solution
(a) gas in gas (b) solid in liquid
(c) solid in gas (d) All of these
- Example of solid in solid solution is
(a) Brass (b) Bronze
(c) Opals (d) All of these
Alcohol in water is example of solution
(a) Liquid-gas (b) Liquid-liquid
(c) gas-liquid (d) None of these
- 10% m/v sugar solution contains 10g of sugar in solution
(a) 90g (b) 100g
m³ (d) 90cm³
- 10% v/m alcohol solution contains 10cm³ of sugar in solution
(a) 100cm (b) 100g
(c) 90cm (d) 90g
- One molar solution contains one mole of solute in 1000 cm³ volume. (a) 100cm³ (b) 1cm

- (c) Idm (d) lcm³
17. Ionic solids and polar covalent Compounds are soluble in
- (a) Benzene (b) ether
(c) Water (d) petrol
- Which one of the following solvent is polar?
- (a) benzene (b) water
(c) ether (d) petrol
19. Grease, paints, naphthalene are soluble in
- (a) Water (b) ether
(c) Carbon tetrachloride
(d) both b and c
20. The compounds soluble in water are
- (a) KCl (b) Na₂CO₃
(c) CuSO₄ (d) All of these
21. Solubility of salt increases with the increase of temperature
- (a) KNO₃ (b) NaNO₃
(c) KCl (d) all of these
22. The solubility of which salt decreases with the increase of temperature
- (a) KNO₃ (b) NaNO₃
(c) Li₂SO₄ (d) KCl
23. Which of the following shows Tyndall effect?
- (a) Albumin (b) milk
(c) paints (d) both a and b
24. Which one is example of colloid?
- (a) Jelly (b) paints
(c) Milk of magnesia
(d) None of these
25. Which one is a suspension?
- (a) Blood (b) Toothpaste
(c) Ink (d) Chalk in water
26. Size of particles in true solution is (a) 10⁻²cm (b) 10⁻⁶cm
(c) 10⁻⁵cm (d) 10⁻¹²cm
27. Mist is an example of solution:
(a) Liquid in gas (b) gas in liquid
(c) Solid in gas (d) gas in solid
28. Which one of the following is a liquid in solid solution?
(a) Sugar in water (b) butter
(c) Opal (d) fog
29. Concentration is ratio of:
(a) Solvent to solute
(b) Solute to solution
(c) Solvent to solution
30. Which one of the following solutions contains more water?
(c) 0.5M (d) 0.25M
31. A 5 percent (w/w) sugar solution means that:
(a) 5 g of sugar is dissolved in 90 g of water
(b) 5 g of sugar is dissolved in 105 g of water
(c) 5 g of sugar is dissolved in 105 g of water
(d) 5 g of sugar is dissolved in 95 g of water
32. If the solute-solute forces are strong- enough than those of solutesolvent forces. The solute:
(a) Dissolves readily
(b) does not dissolve
(c) dissolves slowly
(d) dissolves and precipitates.
33. Which one of the following will show negligible effect of temperature on its solubility?

- (a) KCl (b) KNO_3
 (c) NaNO_3 (d) NaCl
34. Which one of the following is heterogeneous mixture? (a) Milk (b) Ink (c) Milk of magnesia (d) Sugar solution
35. Tyndall effect is shown by: (a) Sugar solution (b) paints (c) Jelly (d) chalk solution
36. Tyndall effect is due to: (a) Blockage of beam of light (b) Solute to solvent (c) % w/w (d) % v/w
- diluted it turns into: (a) Supersaturated solution (b) Saturated solution

Answer Key

1.	b	2.	b	3.	d	4.	b	5.	b
6.	c	7.	c	8.	d	9.	d	10.	c
11.	c	12.	d	13.	b	14.	c	15.	b
16.	c	17.	c	18.	b	19.	d	20.	d
21.	d	22.	c	23.	d	24.	a	25.	d
26.	b	27.	a	28.	b	29.	b	30.	d
31.	d	32.	b	33.	d	34.	c	35.	C
36.	c	37.	c	38.	d	39.	d		