

THE INDIAN SCHOOL, KINGDOM OF BAHRAIN
CHEMISTRY HOLIDAY ASSIGNMENT

CLASS IX

MULTIPLE CHOICE QUESTIONS BASED ON PRACTICAL SKILLS FOR SA1

Select the most appropriate response out of the FOUR provided to you

Each question carries ONE mark

1. A student was asked to mix the white of an egg with water and stir well. The student observed that

- (a) a transparent solution is formed
- (b) a translucent mixture is formed
- (c) egg white settles down at the bottom
- (d) egg white floats on the surface of the water.

2. When a mixture of common salt and ammonium chloride is heated it is observed that

- (a) Solid common salt gets deposited on the cooler parts of the funnel while solid ammonium chloride remains in the china dish.
- (b) Mixture of common salt and ammonium chloride turns into greenish crystals when allowed to cool.
- (c) Ammonium chloride gets deposited on the cooler parts of the funnel and solid common salt remains in the side dish.
- (d) droplets containing both common salt and ammonium chloride appear on the upper part of the funnel while some molten mixture of common salt and ammonium chloride remains in the china dish.

3. Which one of these would be the correct set of apparatus required if you have to separate camphor and common salt?

- (a) round bottom flask, funnel, burner, condenser, wire gauze, stand with clamp
- (b) Conical flask, filter paper, funnel, beaker, stand with clamp, wire gauze
- (c) Separating funnel, beaker, conical flask, tripod stand, burner wire gauze
- (d) China dish, funnel, burner, cotton plug, tripod stand, stand with clamp, wire gauze.

4. The size of particles in suspension, solution and colloid varies in the order

- (a) solution>suspension>colloid
- (b) suspension>solution>colloid
- (c) suspension>colloid>solution
- (d) colloid>suspension>solution

5. The boiling point of water at normal atmospheric pressure is:

- (a) 273K
- (b) 376K
- (c) 373K
- (d) 173K

1

6	The statement not true for true solution is (a) They are transparent (b) They are stable (c) They are heterogeneous (d) They can be filtered																					
7	A mixture of oil and water can be separated by using (a) A separating funnel (b) Burette (c) filter paper and funnel (d) water condenser																					
8	Which of the following is true for a mixture of clay in water?																					
	<table border="1"> <thead> <tr> <th></th> <th>Stability</th> <th>Transparency</th> <th>Filterability</th> </tr> </thead> <tbody> <tr> <td>(a)</td> <td>Unstable</td> <td>Opaque</td> <td>Residue</td> </tr> <tr> <td>(b)</td> <td>Stable</td> <td>Translucent</td> <td>No residue</td> </tr> <tr> <td>(c)</td> <td>Stable</td> <td>Transparent</td> <td>No residue</td> </tr> <tr> <td>(d)</td> <td>Stable</td> <td>Translucent</td> <td>Residue</td> </tr> </tbody> </table>		Stability	Transparency	Filterability	(a)	Unstable	Opaque	Residue	(b)	Stable	Translucent	No residue	(c)	Stable	Transparent	No residue	(d)	Stable	Translucent	Residue	
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9	The particle size of the solute in true solution is (a) >100 nm in diameter (b) < 1 nm in diameter (c) 1000 nm in diameter (d) 100-1000 nm in diameter																					
10	Melting occurs at (a) all temperatures (b) 0°C (c) its melting point (d) its boiling point																					

11. When dilute HCl is added to the compound obtained on heating a mixture of iron and sulphur, the correct observation is:

- (a) No gas is evolved
- (b) Hydrogen gas is evolved which burns with 'pop' sound.
- (c) Hydrogen sulphide gas is evolved with the smell of rotten eggs.
- (d) Sulphur dioxide gas is evolved with the smell of burning sulphur

2

12. One gram of the mixture of iron and sulphur is placed in a test tube. Into the test tube is poured 3 cc of carbondisulphide. The contents of the test tube are vigorously shaken. It is observed:

- a) Iron particles dissolve, but not that of sulphur
- b) Sulphur particles dissolve, but not that of iron
- c) Both sulphur and iron particles do not dissolve
- d) Both sulphur and iron particles dissolve

13. The colour of pure ammonium chloride powder is:

- a) White
- b) Blue
- c) Green
- d) Red

14. Which will not give a stable solution even when stirred for sometime?

- (a) common salt in water
- (b) sugar in water
- (c) chalk powder in water
- (d) milk in water

15. Which is not observed when zinc granules are added to dilute sulphuric acid in a test tube.

- (a) precipitate at the bottom of the tube
- (b) bubbles of gas escaping from the tube
- (c) gradual decrease in the size of the granules
- (d) heat energy evolved in the reaction

16. To determine the melting point of ice, a student immersed the thermometer bulb in crushed ice in a beaker and heated the beaker on a low flame. He would observe

- (a) an increase in temperature due to melting of ice
- (b) a decrease in temperature due to melting of ice
- (c) A decrease first and then an increase in temperature during the melting of ice
- (d) the temperature remains constant during melting of ice

17. When we determine the boiling point of a liquid, the thermometer should be so placed that its bulb

- (a) dips in the liquid
- (b) be above the liquid and vertical
- (c) touches the bottom of the container and the liquid
- (d) be placed slanting in the liquid

18. Conversion of solid into vapour is called

- (a) sublimation
- (b) fusion
- (c) vaporisation
- (d) condensation

19. When we start heating a mixture of sulphur powder and iron filings, we would observe that

- (a) sulphur starts melting
- (b) mixture evaporates
- (c) mixture becomes red hot
- (d) iron filings start melting

20. A white precipitate is formed when two solutions of C and D are mixed. The two solutions can be

- (a) C - Copper Sulphate and D - Sodium Sulphate
- (b) C - lead nitrate and D - Sodium Nitrate
- (c) C - Barium Chloride and D - Sodium Chloride
- (d) C - Barium Chloride and D - Sodium Sulphate

21. When dilute sulphuric acid is added to zinc granules, it is observed that

- (a) a precipitate is formed
- (b) the reaction mixture turns yellow
- (c) the container becomes cool
- (d) bubbles start coming out from the surface of zinc granules

22. Arun, a student of Class Ninth, was asked by his science teacher to prepare a suspension. He added the sample in water but forgot the name of substance. What may be the correct name of the sample?

- (a) Alum
- (b) Egg Albumin
- (c) Chalk Powder
- (d) Barium Chloride

23. A student, by mistake, mixed sulphur powder with iron filings. The techniques were suggested to him to separate the sulphur from the mixture out of which he has to choose one :

- (i) dissolving in carbon disulphide, filtration, evaporation
- (ii) dissolving in water, room temperature and evaporation
- (iii) dissolving in hot water, filtration and evaporation
- (iv) dissolving in ice cold water and filtration

The correct technique is :

- (a) (i)
- (b) (ii)
- (c) (iii)
- (d) (iv)