

Revision sheet

Matter in our surroundings

1. Why does diffusion get faster with change in temp.?
2. What is meant by the change of state? Describe an example to show that ~~the~~ a change in temp. can cause change in physical state of matter.?
3. You want to wear your favourite skirt to a party, but it is still wet. What steps would you take to dry it faster?
4. Given a solution of substance 'A', how will you test whether it is saturated or unsaturated w.r.t. 'A' at prevailing temp.? What is observed when a hot saturated solution is allowed to cool?
5. Why there is no rise temperature when:
 - i) ice melts to water
 - ii) water changes into steam
6. The substances A, B, C has the following characteristics:
 - i) A has a definite volume but no definite shape, is almost compressible & has low rigidity
 - ii) B has definite shape & volume, is compressible and has low rigidity

1. A mixture of ammonium chloride and camphor cannot be separated by sublimation. Why?

2. After winters are over, people pack off their woollens with moth balls. With passage of time these moth balls become smaller in size. What type of change is involved during the process?

3. Why mixtures do not have a fixed melting or fixed boiling point?

4. What should be characteristics of miscible liquids that can be separated by distillation process?

5. Which type of miscible liquids are separated by process of fractional distillation?

6. Name the mixture and also indicate its physical state which is required by all living things and plays an important part during combustion. Can you tell why it is called a mixture? How this mixture can be separated?

7. What kind of parameters can be taken into account to classify a substance into a solute or a solvent?

D. A. V. International School
Assignment sheet —

Subject : Chemistry
Topic : Is Matter around us pure

Class : IX

Date :

1/ Give Reasons

i) Path of beam of light is not visible through a solution

ii) Particles of true solution cannot be seen with naked eye.

2/ What happens when a saturated solution is heated ?

3/ What is the advantage of distillation over evaporation ?

4/ State the property involved in
i) the process of separation of 2 immiscible liquids
ii) the process of separation of 2 miscible liquids.

5/ Name the method used to separate the following

i) Nitrogen from air

ii) Cream from milk

Subject : Chemistry

Topic : MCQ related to practicals

1 To prepare a colloidal solution of egg albumin in water we should

- add egg white to boiling water and cool
- add egg white to cold water and boil
- stir egg white with cold water
- None of these

2 Chalk powder, common salt, oil, and milk were added to water separately in four beakers. On stirring the contents the suspension would be obtained

- Chalk powder
- common salt
- oil
- milk

Tyndall effect can be observed easily in which of following solutions

- Salt solution
- Sugar solution
- Sand into water
- None of these

4 You are given following four mixtures. The mixture that appears clear and transparent is

- starch in water
- sugar in water
- sand in water
- chalk powder in water

A student added milk, white of an egg, common salt and sand separately to water kept in separate beakers. He stirred the mixtures well and filtered each of them. On filtering he obtained solid residue on the filter paper in case of

- milk
- white of an egg
- common salt
- sand

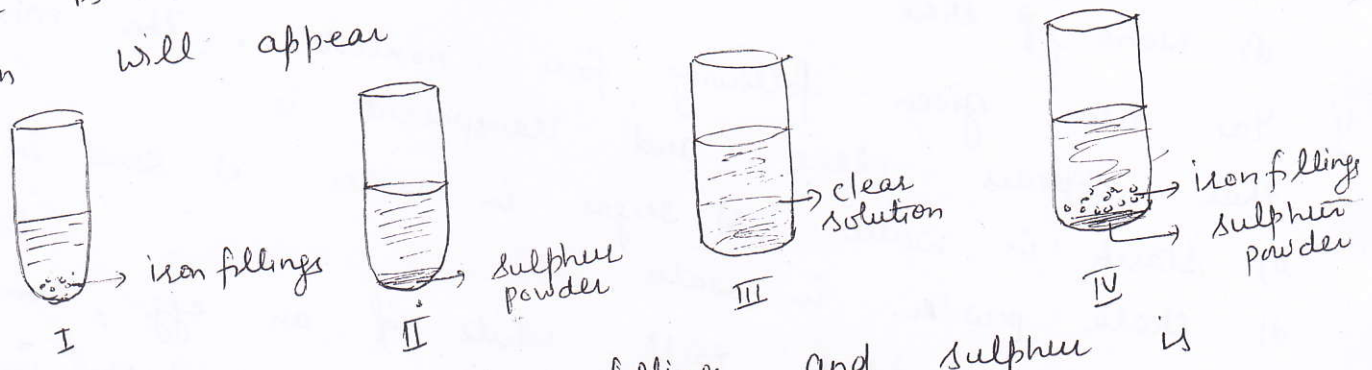
116
 When we heat a mixture of iron and sulphur for a short time and then moved a magnet over it,

- we observe that
- a) iron gets attracted
 - b) sulphur gets attracted
 - c) iron and sulphur both get attracted
 - d) iron, sulphur as well as product formed all get attracted

7 Add dil H_2SO_4 to a mixture of iron and sulphur we would observe

- a) FeS reacts with dilute H_2SO_4 to give H_2 gas
- b) mixture of iron and sulphur reacts with dil. H_2SO_4 to give hydrogen sulphide gas
- c) FeS does not react with sulphuric acid
- d) mixture of Fe and sulphur reacts with H_2SO_4 to give H_2 gas.

8 When a mixture of iron filings and sulphur powder is dissolved in carbon disulphide the resulting solution will appear



9 When a mixture of iron filings and sulphur is heated the colour of the mixture changes from

- a) black to yellow
- b) yellow to black
- c) black to brown
- d) greyish yellow to black.

10 The components of a mixture of iron filings and sulphur powder can be separated by

- a) by Magnet
- d) Distillation

Subject : Chemistry

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2 Take dilute sulphuric acid in a test tube and put few zinc granules into the test tube. You would observe that

- zinc granules changes to powder
- colour of zinc changes from grey to white
- size of the zinc granules keeps decreasing
- surface of zinc metal becomes bright

3 100 ml of saturated copper sulphate was taken and iron filings were added and left undisturbed. The mixture was then filtered to obtain the residue. The colour of

- greenish blue
- faint green
- steel grey
- reddish brown

4 When magnesium combines with oxygen it produces magnesium oxide that appears to be like

- wood ash
- chalk powder
- table salt
- powdered sugar

5 Rahul added 2 ml of Barium chloride solution to 2 ml sodium sulphate solution in a test tube and observed that

- a clear solution was obtained
- solution turned pink
- two solutions formed separate layers in the test tube
- a white solid settled at the bottom

6 Some blue litmus solution is added to magnesium oxide in a china dish, its colour changes to


- red
- green
- becomes colourless
- no change in colour

7 The colour of iron sulphate solution is

- greenish blue

- 7 On placing an iron nail in copper sulphate is observed that
- a soft and black coating is deposited on the iron nail
 - a reddish brown coating is deposited on the iron nail
 - a smooth and shiny coating is deposited on iron nail.
 - grey and hard coating is deposited on iron nail.

- 8 A mixture of camphor and ammonium chloride can be separated by
- a separating funnel
 - distillation
 - sublimation
 - chromatography

- 9 Observe the set up which has mixture of camphor and sand
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- A is the
- residue camphor
 - residue sand
 - sublimate sand
 - sublimate camphor

- 10 In the determination of boiling point of water, correct reading is obtained when
- temperature starts rising
 - water starts boiling
 - whole of water evaporates
 - temperature becomes constant