

# CHEMISTRY STUDY MATERIALS FOR CLASS 9

(NCERT based Questions-Answers of Chapter - 2)

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DATE:- 28/11/2020

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## Is Matter Around Us Pure

Q. 1: Name the solvent you would use to separate a mixture of sulphur and carbon.

Answer 1: Carbon disulphide

Q. 2: Name the process you would use to separate ammonium chloride from a mixture of sodium chloride and ammonium chloride.

Answer 2: Sublimation

Q. 3: Which method can be used to separate a mixture of naphthalene and common salt?

Answer 3: Sublimation

Q. 4: Name the process you would use to separate a mixture of anthracene and copper sulphate?

Answer 4: Sublimation

Q. 5: Name the property of any one of the components which can be used for separating the following mixture: Salt and Camphor

Answer : Camphor undergoes sublimation.

Q. 6: What type of magnet is fitted on a crane to separate scrap iron object from a heap of waste materials in factories?

Answer 6: Electromagnet.

Q. 7: Name the property of one of the constituents which can be used to separate a mixture of salt and iodine

Answer 7: Iodine undergoes sublimation.

Q. 8: Name the process you would use to separate a mixture of two miscible liquids (like acetone and water).

Answer 8: Fractional distillation

Q. 9: What difference in the property, of two miscible liquids enables their separation by fractional distillation?

Answer 9: Difference in their boiling point.

Q. 10: Name one pair of substances whose mixture can be separated by fractional distillation.

Answer 10: Acetone and water

Q. 11: Name one pair liquids which can be separated by using a separating funnel.

Answer 11: Kerosene and water.

Q. 12: State whether the following statement are true or false:

(a) Alcohol can be separated from a mixture of alcohol and water by a separating funnel.

(b) Salt and water can be recovered from an aqueous salt Answer by the process of evaporation.

Answer 12: (a) False (b) False

Q. 13: Name the source from which nitrogen and oxygen are obtained on a large scale.

Answer 13: Air

Q. 14: Name the process by which the various gases of the air are separated.

Answer 14: Fractional distillation of liquid air.

Q. 15: A carpenter wants to separate iron nails from saw-dust. Which method of separation should he choose?

Answer 15: He should choose magnetic separation method to separate iron nails from saw-dust.

Q. 16: Name any two solid substances whose mixture can be separated by sublimation.

Answer 16: Salt and camphor.

Q. 17: Name one pair of substances whose mixture can be separated completely by distillation.

Answer 17: Mixture of common salt and water.

Q. 18: How will you separate a mixture of chalk powder and water?

Answer 18: By filtration.

Q. 19: Name the process which can be used to separate a mixture of salt solution and sand.

Answer 19: Filtration

Q. 20: Name the process which can be used to recover salt from an aqueous salt solution.

Answer 20: Evaporation

Q. 21: Name the process is used in milk dairies to separate cream from milk.

Answer 21: Centrifugation

Q. 22: State one application of centrifugation.

Answer 22: Centrifugation is used to separate cream from milk.

Q. 23: What is the general name of the process by which tea-leaves are separated from prepared tea?

Answer 23: Filtration

Q. 24: Name the process you would use to separate a mixture of water and alcohol.

Answer 24: Fractional distillation

Q. 25: Name the apparatus you would use to separate oil from water.

Answer 25: Separating funnel

Q. 26: What differences in the properties of oil and water enable their separation by a separating funnel?

Answer 26: Difference in the densities of oil and water enable their separation by a separating funnel.

Q. 27: (a) Name the process by which common salt is obtained from sea- water.  
(b)Name the process by which common salt is purified.

Answer 27: (a)Evaporation (b)Crystallization

Q. 28: Name the process by which can be used to purify an impure sample of copper sulphate.

Answer 28: Crystallization

Q. 29: (a) Name the process by which all the dye can be recovered from black ink.  
(b) Name the process by which the various 'dyes' (coloured materials) present in black ink can be separated.

Answer 29: (a) Evaporation (b) Paper chromatography

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