



# CHEMISTRY

## BOOKS - ICSE

### ELEMENTS COMPOUNDS AND MIXTURES.

#### Exercise I

1. Write the symbol of helium, silver , krypton, antimony, barium.



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2. Write the names of the following elements

Na, C, Kr, U, Ra, Fe, Co.



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3. Define

Elements



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#### 4. Define

Compounds.



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5. Name the metal present in haemoglobin.



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6. Name the main metal present in the following

Chalk.



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7. Name the central element present in chlorophyll.



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8. Name the main metal present in the following

Chocolate wrappers.



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**9. Give four examples non-metallic elements**



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**10. What do you understand by**

**Metalloids**



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**11.** What do you understand by

Noble gases.



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**12.** Select elements and compounds from the following list:

Iron, plaster of paris, chalk, common salt, copper, aluminium, calcium oxide, cane sugar, carbon, silica, sodium sulphate,

uranium , potassium carbonate, silver , carbon dioxide.



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## Exercise li

1. State four differences between compounds and mixture,



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2. What are the characteristic properties of a pure substance? Why do we need them?



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3. Give two examples for the following :

Solid+ Solid mixture



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4. Give two examples for the following :

Solid+ Liquid mixture



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5. Give two examples for the following :

Liquid + Liquid mixture.



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**6. Define :**

Evaporations



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**7. Define**

Filtrations



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**8. What is sublimation?**



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## 9. Define

Distillations



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## 10. Define

Miscible liquids



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## 11. Miscible and immiscible liquids



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12. Which of the following methods would you use for separating iron from sulphur particles?



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13. Name the process by which the components of following mixture can be

separated.

Ammonium chloride and sand



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14. Which process can be used to obtain common salt from sea water?



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15. Name the process by which the components of following mixtures can be

separated.

- (a) Powdered glass and sugar
- (b) Chalk powder and iron filings
- (c) Chaff and grain
- (d) Salt and water
- (e) Wheat and sugar
- (f) Sand and camphor
- (g) Sugar and water



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**16.** Name the process by which the components of following mixture can be separated.

Water and mustard oil



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**17.** Name the process by which the components of following mixtures can be separated.

(a) Powdered glass and sugar

(b) Chalk powder and iron filings

(c) Chaff and grain

(d) Salt and water

(e) Wheat and sugar

(f) Sand and camphor

(g) Sugar and water



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**18.** Explain the reason of separation of cream from milk.



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**19.** How will you separate a mixture of common salt, Chalk powder and powdered camphor?  
Explain.



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**20.** How is distillation more advantageous than evaporation?



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21. What is chromatography



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22. What are the advantage of chromatography



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23. Name the simplest type of chromatography



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**24.** What is meant by stationary phase and mobile phase in chromatography?



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**25.** On what principle are the following methods of separation based? Give one example of a mixture of the methods mentioned in which they are used.

Sublimations



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**26.** On what principle are the following methods of separation based? Give one example of a mixture of the methods mentioned in which they are used.

Filtration.



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**27.** On what principle are the following methods of separation based? Give one example of a

mixture of the methods mentioned in which they are used.

Sedimentation and decantation.



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**28.** On what principle are the following methods of separation based? Give one example of a mixture of the methods mentioned in which they are used.

Solvent extraction method



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**29.** On what principle are the following methods of separation based? Give one example of a mixture of the methods mentioned in which they are used.

Magnetic separations.



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**30.** On what principle are the following methods of separation based? Give one example of a mixture of the methods

mentioned in which they are used.

By using a separating funnel



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**31.** On what principle are the following methods of separation based? Give one example of a mixture of the methods mentioned in which they are used.

Fractional distillations.



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## Objective Type Questions Fiil In The Blanks

1. .... are made up of same kind of atoms.



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2. .... And ..... Are pure subsances.



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3. In a ..... the substances are not combined chemically.



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4. Clay is separated from water by the method called.....



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5. .... Is a process to obtain a very pure form of a solid dissolved in a liquid



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6. Camphor and ammonium chloride can  
.....



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7. The solid particles which remain on the filter paper are called and the liquid which passes through it is called.....



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8. The liquid which evaporates and then condenses during the process of distillations.....



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9. The process of transferring the clear liquid layer above the solid particles which settle at the bottom of the container is known as.....



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10. Name the process used to separate a mixture of two miscible liquids.



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# Objective Type Questions Multiple Choice Questions

1. A pure liquid is obtained from a solutions by :

- A. Evaportions
- B. distillation
- C. filteration
- D. crystallisations.

**Answer:**





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2. Components of blood sample are separated by.....

A. distillation

B. Evaporations

C. filtration

D. fractional distillations.

**Answer:**



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3. Example of a homogeneous mixture is

A. tap water

B. distilled water

C. sand and water

D. water and oil

**Answer:**



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4. कागज वर्णलेखन में

A. Stationary phase

B. mobile phase

C. mixture

D. none of the above

**Answer:**



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5. A set of mixture is :



A. ink, honey , icecream , milk

B. tap water, gold, common salt, alloy

C. milk, brass, silver, honey

D. butter, petroleum, tapwater, iron.

**Answer:**



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