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CHEMISTRY

BOOKS - ICSE

ELEMENTS, COMPOUNDS AND MIXTURES

Exercises Short Answer Questions

1. What is an element ?

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2. What are the symbol of the following element ? Carbon.

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3. What is the symbol for Iron $\rightarrow$ .....

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4. What are the symbol of the following element ? Silicon.

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5. What are the symbol of the following element ? Sulphur.

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6. What are the symbol of the following element ? Calcium.

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7. What are the symbol of the following element ? Aluminium.

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8. What are the symbol of the following element ? Oxygen.

9. What are the symbol of the following element ? Phosphorus.

10. What are the symbol of the following element ? Chlorine.

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11. What are the symbol of the following element ? Magnesium.

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12. What are the symbol of the following element ? Nitrogen.

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13. What are the symbol of the following element ? Copper

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14. What are the symbol of the following element ? Zinc.

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15. What are the symbol of the following element ? Lead.

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16. Which element are represented by the following symbol ? K.

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17. Which element are represented by the following symbol ? Na.

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18. Which element are represented by the following symbol ? Br.

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19. Which element are represented by the following symbol ? Zn.

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20. Which element are represented by the following symbol ? Cu.

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21. Name the elements represented by the following symbols : Ag,Hg

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22. What is a compound?

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23. What are atoms?

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24. What are molecules?

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25. What is a pure substance?

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26. What is a mixture?

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27. Classify the following into pure substances and mixture. Air ?

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28. Classify the following into pure substances and mixture. Copper ?

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29. Classify the following into pure substances and mixture. Silver?

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30. Classify the following into pure substances and mixture. A sugar solution.

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31. Classify the following into pure substances and mixture. Mud.

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32. Classify the following into pure substances and mixture. A salt solution.

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33. Classify the following into pure substances and mixture. Carbon dioxide?

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34. Classify the following into pure substances and mixture. Water.

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35. Classify the following into pure substances and mixture. Nitrogen.

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36. Classify the following into pure substances and mixture. Iron.

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37. Classify the following into pure substances and mixture. Oxygen.

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38. Classify the following into pure substances and mixture. Milk.

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39. Classify the following into pure substances and mixture. Blood.

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40. Classify the following into pure substances and mixture. Gold.

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41. Classify the following into pure substances and mixture. Brass.

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42. Name the method used to separate pure water from a solution of salt.

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43. Name three substances that can sublime.

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Exercises Long Answer Questions

1. Describe an experiment to show that hydrogen chemically combines with oxygen to form water.

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2. Show that the properties of carbon dioxide are different from those of carbon and oxygen.

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3. Describe sieving, giving two examples.

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4. Describe how filtration is done to separate water from sand.

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5. Describe a simple experiment to carry out the distillation of water.

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Exercises Objective Questions Choose The Correct Option

1. Which of the following statements is true?

A. According to Dalton, atoms are divisible.

B. Atoms do not take part in a chemical reaction.

C. The atoms of an element are different from those of other elements.

D. Atoms can be broken into molecules.

Answer:

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2. The molecules of which of the following substances will contain the same kind of atoms?

A. Oxygen

B. Water

C. Carbon dioxide

D. Sulphur dioxide

Answer:

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3. The molecules of which of the following substances will contain atoms of more than one kind?

A. Hydrogen

B. Nitrogen

C. Oxygen

D. Water

Answer:

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4. Which of the following is an alloy?

A. Iron

B. Gold

C. Stainless steel

D. Copper

Answer:

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

A. Magnetic separation

B. Filtration

C. Sublimation

D. Distillation

Answer:

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6. Which of the following methods can be used to separate mustard oil and water from a mixture of the two?

A. Magnetic separation

B. Decantation

C. Sublimation

D. Filtration

Answer:

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Exercises Objective Questions Fill In The Blanks

1. The properties of a compound are different from those of its constituent elements.

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2. When kindled, water ..... burn in oxygen, but hydrogen ..... (does/does not)

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3. All atoms of an element are identical.

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4. The atoms of an element..... all the properties of the element. (show/do not show)

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5. Atoms combine in ..... numbers as they are ..... (whole/fractional/divisible/indivisible)

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6. The constituents of a mixture are present in ..... proportion. (any/fixed)

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7. The constituents of a mixture ..... retain their properties. (do/do not)

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8. The constituents of a mixture can be separated by simple physical means.

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9. Water containing dissolved air is a.....mixture. (gaseous/gas-liquid)

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10. Ammonium chloride can be ..... (sublimed/distilled)

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Exercises Objective Questions True False

1. Things are ultimately made up of compounds.

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2. Compounds are made up of elements.

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3. The symbol of an element represents a molecule of it.

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4. Black coffee is a pure substance.

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5. The components of a mixture chemically react with one another.

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6. Distilled water is pure water.

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7. Carbon dioxide is a mixture of carbon and oxygen.

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