



Name of the Bundle	Advanced Bundle V1	Subject	Competitive Exams Training (Science)
Topic	Elements and Compounds	Last updated on	05 August 2024

1) Which one of the following elements is a liquid at room temperature?

- a) Mercury
- b) Gold
- c) Oxygen
- d) Iron

Ans: a) Mercury

2) The smallest part of a compound which still has the properties of that compound is called

- a) a solid
- b) a molecule
- c) an atom
- d) a mixture

b) a molecule

3) Where two or more substances are mixed together but not chemically combined, this substance is called

- a) an atom
- b) a compound
- c) a mixture
- d) a molecule

Ans: c) a mixture

4) Which one of the following statements is correct?

- a) All gases are elements
- b) Compounds always contain different types of atom
- c) Water is an element made up of hydrogen and oxygen
- d) The symbol for sodium is So

Ans: b) Compounds always contain different types of atom

5) Which one of the following substances is a compound?

- a) Hydrogen
- b) Sodium fluoride
- c) Iron
- d) Oxygen

Ans: b) Sodium fluoride



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6) A compound is a substance that _____.

- a) is made up of only element
- b) is made up of two or more element chemically joined together
- c) contains two or more elements physically combined together in a fixed ratio
- d) contains only metallic elements chemically joined together.

Ans: b) is made up of two or more element chemically joined together

7) What is the building block of matter?

- a) Atom
- b) Element
- c) One type of atom
- d) Compound

Ans: a) Atom

8) An _____ is a substance that contains only one type of atom.

- a) element
- b) one type of atom
- c) molecule
- d) compound

Ans: a) element

9) Which of the following is not a mixture?

- a) Petroleum
- b) Air
- c) Distilled water
- d) Milk

Ans: c) Distilled water

10) Which of the following is an element?

- a) water
- b) Tin
- c) Hydrogen sulphide
- d) Ammonia

Ans: b) Tin



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11) Iron and sulphur can form _____.

- a) a compound only
- b) a mixture only
- c) a solution only
- d) both compound and mixture

Ans: d) Both compound and mixture

12) Which one of the following elements is a non- metal?

- a) Nickel
- b) Tungsten
- c) Phosphorus
- d) Sodium

Ans: c) Phosphorus

13) Which of the following is a metalloid?

- a) Arsenic
- b) Helium
- c) Bromine
- d) Iodine

Ans: a) Arsenic

14) Which of the following properties do not apply to an element?

- a) Can be divided into simple substances
- b) Pure substance
- c) All particles have some properties
- d) Composed of only one kind of particles

Ans: a) Can be divided into simple substances

15) Which of the following elements show the properties of both metals and nonmetals?

- a) Noble gases
- b) Alkaline elements
- c) Metalloids
- d) Ideal gases

Ans: c) Metalloids



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16) Sulphur is an example of _____.

- a) Element
- b) Compound
- c) Mixture
- d) Metalloid

Ans: a) Element

17) Which of the following will form a homogeneous mixture?

- a) Sand and water
- b) Oil and water
- c) Salt and water
- d) Chalk powder and water

Ans: c) Salt and water

18) Formula for calcium chloride is _____.

- a) CaCl
- b) Ca₂Cl
- c) CaCl₂
- d) CaCl₃

Ans: c) CaCl₂

19) Which metal is known as an alloy of copper and zinc?

- a) Bronze
- b) Aluminum
- c) Brass
- d) Copper

Ans: c) Brass

20) Which of the following mixtures is an example of a homogeneous mixture of metals?

- a) Mixture of iron and calcium
- b) Mixture of iron and copper
- c) Pure iron
- d) Brass

Ans: d) Brass



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21) Which of the following are the components of the stainless steel mixture (alloy)?

- a) Iron, Carbon
- b) Copper, Zinc
- c) Aluminum, Tin
- d) Lead, Magnesium

Ans: a) Iron, Carbon

22) Which non-metal is used to preserve food or food material?

- a) Carbon
- b) Phosphorus
- c) Nitrogen
- d) Sulphur

Ans: c) Nitrogen

23) Plaster of Paris is

- a) $\text{CaSO}_4 \cdot \text{H}_2\text{O}$
- b) $\text{CaSO}_4 \cdot (\frac{1}{2})\text{H}_2\text{O}$
- c) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- d) $\text{CaSO}_4 \cdot (3/2)\text{H}_2\text{O}$

Ans: b) $\text{CaSO}_4 \cdot (\frac{1}{2})\text{H}_2\text{O}$

24) Which is Gypsum among the following?

- a) $\text{CaCO}_3 \cdot 2\text{H}_2\text{O}$
- b) $\text{Ca}(\text{OH})_2$
- c) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- d) $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$

Ans: c) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

25) The chemical formula of blue vitriol is

- a) $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- b) $\text{CuSO}_4 \cdot \text{H}_2\text{O}$
- c) $\text{CuSO}_4 \cdot (\frac{1}{2})\text{H}_2\text{O}$
- d) $\text{CuSO}_4 \cdot 7\text{H}_2\text{O}$

Ans: a) $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$



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26) What is the chemical name of sand?

- a) Sodium chloride
- b) Nitric oxide
- c) Silicon dioxide
- d) Sodium oxide

Ans: c) Silicon dioxide

27) Which of the following elements are called metalloids?

- a) Se,I,Te
- b) Ge,As,Sb
- c) In,Pb,Sn
- d) Al,Mg,Na

Ans: b) Ge,As,Sb

28) Gypsum is added to the cement for _____.

- a) fast setting
- b) delayed setting
- c) hardening
- d) making paste

Ans: b) delayed setting

29) Oxygen, hydrogen, and sulphur are examples of which of the following?

- a) Metal
- b) Non-Metal
- c) Metalloids
- d) Inert gases

Ans: b) Non-Metal

30) An element which is always lustrous, malleable and ductile

- a) Metal
- b) Non-Metal
- c) Metalloids
- d) Inert gases

Ans: a) Metal



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31) _____ is the only non-metal conducts electricity

- a) Diamond
- b) Graphite
- c) Mercury
- d) Silver

Ans: b) Graphite

32) What is the chemical name of Blue Vitriol?

- a) Ferrous sulphate
- b) Copper sulphate
- c) Potassium nitrate
- d) Sulphuric acid

Ans: b) Copper sulphate

33) What is the chemical name of Green Vitriol?

- a) Ferrous sulphate
- b) Copper sulphate
- c) Potassium nitrate
- d) Sulphuric acid

Ans: a) Ferrous sulphate

34) _____ is the chemical formula for green vitriol.

- a) $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
- b) FeSO_4
- c) $\text{CuSO}_4 \cdot 7\text{H}_2\text{O}$
- d) H_2SO_4

Ans: a) $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

35) What is the chemical name of Saltpetre?

- a) Copper sulphate
- b) Potassium nitrate
- c) Sulphuric acid
- d) Calcium sulphate

Ans: b) Potassium nitrate



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36) _____ is the chemical formula for Saltpetre.

- a) KNO_3
- b) H_2SO_4
- c) CuSO_4
- d) FeSO_4

Ans: a) KNO_3

37) What is the chemical name of Oil of Vitriol?

- a) Copper sulphate
- b) Potassium nitrate
- c) Sulphuric acid
- d) Calcium sulphate

Ans: c) Sulphuric acid

38) What is the chemical formula for Oil of Vitriol?

- a) KNO_3
- b) H_2SO_4
- c) CuSO_4
- d) FeSO_4

Ans: b) H_2SO_4

39) What is the chemical name of Gypsum?

- a) Potassium nitrate
- b) Sulphuric acid
- c) Calcium sulphate hemihydrate
- d) Calcium sulphate

Ans: d) Calcium sulphate

40) What is the chemical name of Plaster of paris?

- a) Potassium nitrate
- b) Sulphuric acid
- c) Calcium sulphate hemihydrate
- d) Calcium sulphate

Ans: c) Calcium sulphate hemihydrate



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41) What is the chemical name of Muriate of potash?

- a) Potassium chloride
- b) Sulphuric acid
- c) Calcium sulphate hemihydrate
- d) Calcium sulphate

Ans: a) Potassium chloride

42) What is the chemical formula for Potassium chloride?

- a) K_2Cl
- b) KCl_2
- c) KCl
- d) PCI

Ans: c) KCl

43) Bio gas consists of _____.

- a) Carbon monoxide, Methane and Hydrogen
- b) Carbon dioxide, Methane and Hydrogen
- c) Carbon monoxide, Ethane and Hydrogen
- d) Carbon dioxide and Hydrogen

Ans: b) Carbon dioxide, Methane and Hydrogen

44) What is the formula for Ozone gas?

- a) O_3
- b) O
- c) O_2
- d) O_4

Ans: a) O_3

45) Which of the following statements is correct about camphor and ammonium chloride?

- a) Both of them are inorganic compounds
- b) Both of them are organic compounds
- c) Both of them undergo sublimation
- d) Both b and c

Ans: c) Both of them undergo sublimation



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46) Which one among the following is the main ingredient in Cement?

- a) Gypsum
- b) Limestone
- c) Clay
- d) Ash

Ans: b) Limestone

47) What are the constituents of bronze?

- a) Al,Cu,Mn,Mg
- b) Cu,Zn
- c) Cu,Sn
- d) Pb,Sn

Ans: c) Cu,Sn

48) Baking soda is _____.

- a) Na_2CO_3
- b) K_2ClO_3
- c) Na_2SO_4
- d) NaHCO_3

Ans: d) NaHCO_3

49) Washing soda is _____.

- a) Na_2CO_3
- b) K_2ClO_3
- c) Na_2SO_4
- d) NaHCO_3

Ans: a) Na_2CO_3

50) What is the common name of Limestone?

- a) Potassium carbonate
- b) Calcium carbonate
- c) Sodium carbonate
- d) Sodium bi carbonate

Ans: b) Calcium carbonate



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51) What is the chemical formula of Limestone?

- a) CaCO_3
- b) CaCl_2
- c) NaHCO_3
- d) NaCO_3

Ans: a) CaCO_3

52) What is the chemical formula for Glucose?

- a) $\text{C}_6\text{H}_{12}\text{O}_6$
- b) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$
- c) $\text{C}_2\text{H}_6\text{O}$
- d) CH_4

Ans: a) $\text{C}_6\text{H}_{12}\text{O}_6$

53) What is the chemical formula for Sucrose?

- a) $\text{C}_6\text{H}_{12}\text{O}_6$
- b) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$
- c) $\text{C}_2\text{H}_6\text{O}$
- d) CH_4

Ans: b) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$

54) Which among the following Metals is the Lightest?

- a) Aluminum
- b) Ti
- c) Lead
- d) Copper

Ans: a) Aluminum

55) Solid Carbon Dioxide is known as:

- a) Diamond
- b) Dry Ice
- c) Rock
- d) Mercury

Ans: b) Dry Ice



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56) Which of the following is a heterogeneous mixture?

- a) milk
- b) common salt
- c) sugar
- d) carbon dioxide

Ans: a) milk

57) What is the chemical name of chalk?

- a) Potassium carbonate
- b) Calcium carbonate
- c) Sodium carbonate
- d) Sodium bi carbonate

Ans: b) Calcium carbonate