

CHEMISTRY QUESTIONS FOR CLASS 10

(Based on Chapter 3: Metals and Non- metals)

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Choose the correct option;

- The non-metal which is liquid at room temperature is:
a) Mercury b) Bromine c) Carbon d) Helium
- The number of protons in an atom of an element A is 19 then, the number of electron in its ion A^+ is:
a) 18 b) 19 c) 20 d) 21
- Bauxite is an ore of
a) Iron b) Aluminium c) Mercury d) Copper
- The metal which is liquid at room temperature is
a) Bromine b) Mercury c) Iodine d) Potassium
- The sulphide ores are converted into oxides by heating strongly in the presence of excess air. This process is known as
a) Roasting b) Smelting c) Calcination d) Refining
- In electrolytic refining, the cathode is made up of
a) Pure metal b) Impure metal c) Alloy d) Metallic salt
- In the given reaction, $Al_2O_3 + NaOH \rightarrow \dots X \dots + H_2O$. What is element X?
a) $NaAlO_2$ b) Na_3Al c) Na_2O_3 d) $NaAl_2O_3$
- Which of the following represent the correct order of decreasing reactivity?
a) $Mg > Al > Zn > Fe$ b) $Mg > Zn > Al > Fe$
c) $Al > Zn > Fe > Mg$ d) $Mg > Fe > Zn > Al$

9. An element reacts with oxygen to give a compound with a high melting point. This compound is also soluble in water. The element is likely to be

- (a) Ca (b) C (c) Si (d) Fe

10. Which of the following pairs will give displacement reactions?

- (a) NaCl solution and copper metal (c) FeSO₄ solution and silver metal
(b) MgCl₂ solution and aluminium metal (d) AgNO₃ solution and copper metal

11. Which among the following is the most abundant metal found in the earth's crust?

- (a) Magnesium (b) Aluminium (c) Oxygen (d) Iron

12. Which of the following pairs of reactants will go undergo a displacement reaction?

- (a) CuSO₄ + Fe (b) ZnSO₄ + Fe (c) MgSO₄ + Fe (d) Ca(SO₄)₂ + Fe

13. Galvanisation is a method of protecting steel and iron from rusting by coating them with a thin layer of

- (a) Copper (b) Aluminum (c) Zinc (d) Bauxite

14. Which of the following alloys contains a non-metal as one of its constituents?

- (a) Steel (b) Brass (c) Amalgam (d) Bronze

15. An element X is soft and can be cut with the help of a knife. It is very reactive to air and cannot be kept open in the air. It reacts vigorously with water. Identify the element from the following:

- (a) Mg (b) Na (c) P (d) Ca
