

Practice Test
Chapter: 3rd
Metals and Non- Metals

Q1: Which of the following methods is suitable for preventing an iron frying pan from rusting?

- (a) Applying grease
- (b) Applying paint
- (c) Applying a coating of zinc
- (d) All of the above.

Q2: Which of the following pairs will give displacement reactions?

- (a) NaCl solution and copper metal
- (b) MgCl_2 solution and aluminium metal
- (c) FeSO_4 solution and silver metal
- (d) AgNO_3 solution and copper metal.

Q3: What happens when calcium is treated with water?

- (i) It does not react with water.
- (ii) It reacts violently with water.
- (iii) It reacts less violently with water.
- (iv) Bubbles of hydrogen gas formed stick to the surface of calcium.

- (a) (i) and (iv)
- (b) (ii) and (iii)
- (c) (i) and (ii)
- (d) (iii) and (iv)

Q4: The electronic configurations of three elements X, Y and Z are X –2, 8; Y –2, 8, 7 and Z –2, 8, 2. Which of the following is correct?

- (a) X is a metal.
- (b) Y is a metal.
- (c) Z is a non-metal.
- (d) Y is a non-metal and Z is a metal

Q5: Assertion (A): A list of common metals arranged in order of their decreasing reactivity is known as an activity series.

Reason (R): Metals above hydrogen in the Activity series can displace hydrogen from dilute acids. A more reactive metal displaces a less reactive metal from its salt solution.

Q6: Assertion (A): Ionic compounds have low melting and boiling points.

Reason (R): A considerable amount of energy is required to break the strong inter-ionic attraction.

Q7: Name two metals which are found in nature in the free state.

Q8: Why do ionic compounds have high melting points?

Q9: What would you observe when zinc is added to a solution of iron(II) sulphate?

Write the chemical reaction that takes place.

Q10: Name the non-metal which is good conductor of electricity.

Q11: Give reasons why copper is used to make hot water tanks and not steel (an alloy of iron).

Q12: Differentiate between metal and non-metal on the basis of their chemical properties.

Q13: What are amphoteric oxides? Give two examples of amphoteric oxides.

Q14: What is the difference between Calcination and Roasting process?

Q15: What is the difference between (i) Mineral (ii) Ore (iii) Gangue?

Q16: Write down the general properties for ionic compounds.