

INORGANIC CHEMISTRY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](#) Team

Q1. Which of the following elements are contained in the fertilizer super-phosphate?

- Phosphorus
- Hydrogen
- Nitrogen
- Calcium

Select the correct answer using the codes given below:

- a) 2, 3 and 4
- b) 3 and 4
- c) 1, 2 and 4
- d) 1, 2 and 3

Q2. Match List-I with List-II and select the correct answer using the codes given below the lists:

List-I	List-II
A. KNO_3	1. Nitric acid, Silver hydroxide
B. AgNO_3	2. Hydrochloric acid, Magnesium hydroxide
C. MgCl_2	3. Carbonic acid, Ammonium hydroxide
D. $(\text{NH}_4)_2\text{CO}_3$	4. Nitric acid, Potassium hydroxide
E. NaCl	5. Hydrochloric acid, Sodium hydroxide

Code: (A) (B) (C) (D)

- a) A ? (4); B ? (3); C ? (1); D ? (2); E ? (5)
- b) A ? (1); B ? (2); C ? (4); D ? (3); E ? (5)
- c) A ? (4); B ? (3); C ? (2); D ? (1); E ? (5)
- d) A ? (4); B ? (1); C ? (2); D ? (3); E ? (5)

Q3. Which one of the following is present in the largest amount in terms of percent by mass in the Earth's crust?

- a) Silicon
- b) Carbon
- c) Oxygen
- d) Calcium

Q4. Consider the following statements :

- Metals can form positive ions by losing electrons to non-metals.
- Different metals have same reactivities with water and dilute acids.
- A more reactive metal displaces a less reactive metal from its salt solution.

Which of these statements are correct?

- a) 2 and 3
- b) 1 and 3
- c) 1 and 2
- d) 1, 2 and 3

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Q5. Consider the following statements:

- The discovery of inert gases later on did not disturb Mendeleev's arrangement.
- In the present periodic table, periodicity in the properties of elements is related to the periodicity in their electronic configurations.

Which of these statement(s) above is/are correct ?

- a) 1 and 2 both
 - b) 2 only
 - c) 1 only
 - d) None
-

Q6. Match List-I with List-II and select the correct answer using the codes given below the lists:

List-I	List-II
A. Limestone	1. Cement
B. Copper	2. Electrical goods
C. Bauxite	3. Manufacture of aeroplanes
D. Manganese	4. Steel

Code: (A) (B) (C) (D)

a) 4 3 2 1

b) 2 3 1 4

c) 1 2 3 4

d) 3 4 1 2

Q7. In the manufacture of lead glass:

- Oxide of lead is added to ordinary glass
- Oxide of lead increases the density of glass
- Oxide of lead increases the refractive index of glass
- Oxide of lead decreases the refractive index of glass

a) 1, 3 and 4

b) 2, 3 and 4

c) 1, 2 and 4

d) 1, 2 and 3

Q8. Match List-I with List-II :

List-I	List-II
A. German silver	1. Tin
B. Solder	2. Nickel
C. Bleaching powder	3. Sodium
D. Hypo	4. Chlorine

Select the correct answer from the codes given below: (A) (B) (C) (D)

a) 1 2 3 4

b) 2 1 3 4

c) 1 2 4 3

d) 2 1 4 3

Q9. What is the usual property of oxides of Group III and IV?

a) Basic and acidic

b) Acidic

c) Basic

d) Neutral

Q10. Consider the following statements :

- Among the nitrogenous fertilizers used, urea contains maximum percentage of N.
- The mixture of calcium sulphate and calcium dihydrogen phosphate is known as superphosphate of lime.
- Potassium magnesium sulphate is called the muriate of potash.

Which of the statements given above are correct?

a) 1 and 3

b) 2 and 3

c) 1 and 2

d) 1, 2 and 3

Q11. Food cans are coated with tin and not with zinc because

a) zinc is more reactive than tin

b) zinc has a higher melting point than tin

c) zinc is costlier than tin

d) zinc is less reactive than tin

Q12. While tinning of brass utensils, the ammonium chloride powder used to clean the hot utensil produces fumes of

- a) hydrochloric acid
- b) carbon monoxide
- c) ammonia
- d) ammonia and hydrochloric acid

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Q13. Which of the following is the most common element in the Universe?

- a) Hydrogen
- b) Nitrogen
- c) Oxygen
- d) Carbon

Q14. Select the correct statements:

- Plants use CO_2 during the process of photosynthesis
- CO_2 dissolved in water reacts with limestone present in rocks to form A which is absorbed by marine animals. Compound A helps in the formation of shells by marine animals.
- The % of oxygen in the air dissolved in water is about 32- 35%.
- Aquatic animals use dissolved oxygen to respire.

- a) 1, 3 and 4
- b) 2 and 4
- c) 1, 2 and 3
- d) 1, 2, 3 and 4

Q15. Which of the statements given below is/are **correct**?

The permanent hardness of water is due to the presence of soluble.

- chloride of calcium
- bicarbonate of calcium
- sulphate of magnesium
- bicarbonate of magnesium

Select the **correct** answer using the codes given below:

- a) 2 and 4
- b) 1 and 3
- c) 1 only
- d) 1, 2 and 3

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Answers to the above questions :

Q1. Answer: (c)

Superphosphate is made by treating phosphate rock with concentrated H_2SO_4 .

It is $\text{Ca}(\text{H}_2\text{PO}_4)_2$ and hence contains calcium, hydrogen, and phosphorous according to the oxide formation method.

Q2. Answer: (d)

Q3. Answer: (c)

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Q4. Answer: (b)

Q5. Answer: (a)

Q6. Answer: (c)

Manganese is essential to iron and steel production. At present, steel making accounts for 85 to 90% of the total demand, most of the total demand. Manganese is a key component of low-cost stainless steel formulations and certain widely used aluminium alloys.

Limestone can be used in constructing buildings. It can be used for making cement and mortar. Limestone is used to make glass and even used to make roads.

Bauxite is the mineral ore of aluminium which is used in the manufacture of cans, aeroplanes, sporting and electronic equipment and home appliances.

The Wright Brother's first aeroplane to fly in 1903 only was able to get off the ground because they modified its engine with aluminium in order to reduce its weight. Without the ability of the strong aluminium, alloys to withstand the huge pressures and stresses involved, high-altitude flying would not be conceivable. In fact, aluminium comprises about 80% of an aircraft's unladen weight.

The element **copper** is used extensively as an electrical conductor, for the making of electrical wire.

Q7. Answer: (d)

Q8. Answer: (d)

Nickel silver, also known as German silver, is a copper alloy with nickel and often zinc.

Solders are typically made from tin or lead or a combination of both in the ratio of 63:37 respectively.

Calcium hypochlorite, also known as bleaching powder, is a chemical compound with the formula $\text{Ca}(\text{ClO})_2$. It is widely used for water treatment and as a bleaching agent. This chemical is considered to be relatively stable and has greater available chlorine than sodium hypochlorite (liquid bleach).

Hypo solution is the abbreviation for sodium thiosulphate or sodium hyposulphite, a chemical used to fix the image on photographic film after it has been developed.

Q9. Answer: (a)

Q10. Answer: (c)

Statement (1) and (2) are correct. Urea contains maximum percentage of N among various fertilizers used. The mixture of $\text{Ca}(\text{H}_2\text{PO}_4)_2$ and CaSO_4 is sold as "super phosphate". Statement (3) is wrong. Muriate is name for potassium chloride KCl.

Q11. Answer: (a)

Q12. Answer: (d)

It produces fumes of ammonia and hydrochloric acid.

Q13. Answer: (a)

Q14. Answer: (d)

Q15. Answer: (b)

Chlorides and sulphates of calcium and magnesium are responsible for the permanent hardness of the water.

Note: Bicarbonates are responsible for the temporary hardness of the water.

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