

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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. The chemical composition of diamond is

- a) Carbon
- b) Nickel
- c) Nitrogen
- d) Zinc

Q2. Match List-I with List-II :

List-I	List-II
A. Element with the largest size in the second period	1. boron
B. Element with the smallest size in group 13	2. fluorine
C. Element with a maximum non-metallic character	3. bromine
D. Element with the smallest size in the fourth period	4. lithium
E. Element with the most metallic character in group 14	5. lead

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

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

Q3. Which of the following statements about pH and H^+ ion concentration are **incorrect**?

- The addition of one drop of concentrated HCl in NH_4OH solution decreases the pH of the solution.
- A solution of the mixture of one equivalent of each of CH_3COOH and NaOH has a pH of 7.

- The pH of pure neutral water is not zero.
- A cold and concentrated H_2SO_4 has a lower H^+ ion concentration than a dilute solution of H_2SO_4 .

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

Q4. Which is the most abundant element after oxygen?

- a) Silicon
- b) Sodium
- c) Carbon
- d) Chlorine

5000+ FREE GENERAL SCIENCE MCQ QUESTION BANK FOR ALL SSC, UPSC, BANK, RAILWAY EXAMS

[Free Practice MCQs »](#)

[Download More PDF »](#)

[Free Online Quiz »](#)

Q5. Consider the following statements:

Hard water does not give lather with soap because hard water contains:

- calcium bicarbonate
- magnesium bicarbonate
- chlorides of calcium and magnesium
- sulphates of calcium and magnesium

Which of these statements are **correct**?

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

Q6. Consider the following statements with reference to the periodic table of chemical elements.

- Ionization potential gradually decreases along a period.
- In a group of elements, electron affinity decreases as the atomic weight increases.
- In a given period, electronegativity decreases as the atomic number increases.

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

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

Q7. The element found maximum in the soil layer is

- a) Oxygen
 - b) Manganese
 - c) Nitrogen
 - d) Silicon
-

Q8. When iron is left exposed in open air, it gets rusted. Which constituent(s) of air is /are responsible for rusting iron?

- Oxygen gas present in air
- Moisture present in air
- Carbon dioxide gas present in air

Select the correct answer using the code given below :

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

Q9. Which of the following statements about diamond are correct?

- It is used as a gem in jewellery because of its ability to reflect light.
- It is good conductor of electricity.

- It is used for cutting glass, marble stones and other hard materials.
- It is used for drilling of rocks.

Select the correct answer using the codes given below:

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

Q10. H_2O is liquid and H_2S is a gas because

- a) atomic radius of oxygen is less than that of sulphur.
b) oxygen is less electronegative than sulphur.
c) oxygen forms stronger hydrogen bonding than sulphur.
d) atomic radius of oxygen is greater than that of sulphur.
-

Q11. Match List-I with List-II :

List-I (Compound)	List-II (Use)
A. Cellulose nitrate	1. Soft soap
B. Potassium sulphate	2. Gun powder
C. Potassium salt of fatty acids	3. Fertilizer
D. Calcium oxide	4. Glass

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

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

Q12. Approximately, how many different chemical elements exist in the Earth?

- a) 300
b) 200

c) 250

d) 100

1000+ FREE INORGANIC CHEMISTRY BASED QUESTIONS AND ANSWERS FOR ALL COMPETITIVE EXAMS

[Free Practice MCQs »](#)

[Download More PDF »](#)

[Free Online Quiz »](#)

Q13. Assertion (A):

In the periodic table of chemical elements, electron affinity is always found to increase from top to bottom in a group.

Reason (R):

In a group, the atomic radii generally increase from top to bottom.

- a) Both (A) and (R) are true and (R) is the correct explanation of (A)
- b) (A) is true, but (R) is false
- c) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- d) (A) is false, but (R) is true

Q14. Which of the following is a fundamental element?

- a) Sand
- b) Marble
- c) Diamond
- d) Sugar

Q15. Consider the following statements :

- Solid NaCl conducts electricity.
- Bauxite is purified by chemical separation.
- Copper is purified by electrolytic refining.

Which of these statements are correct ?

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

d) 1, 2 and 3

[Read More inorganic chemistry Question and Answers »](#)

Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (d)

Q3. Answer: (a)

CH_3COOH is weak acid while NaOH is a strong base, so one equivalent of NaOH can not be neutralized with one equivalent of CH_3COOH .

Concentrated H_2SO_4 has a higher H^+ ion concentration than dilute solution of H_2SO_4 .

5000+ GENERAL SCIENCE MCQ TOPIC WISE MCQ QUESTION BANK WITH SOLVED ANSWERS & FREE PDF

[MEASUREMENT AND SI UNITS](#)

[MEASURING DEVICES AND SCALES](#)

[MECHANICS \(MASS, FORCE, ACCELERATION, WORK, ENERGY, MOMENTUM, VELOCITY\)](#)

[FORCE OF GRAVITY, SOLIDS AND FLUIDS](#)

[MOTION UNDER GRAVITY](#)

[PHYSICAL PROPERTIES OF MATERIALS](#)

[LIGHT, HEAT, THERMODYNAMICS, WAVE MOTION, SOUND, OPTICS & OSCILLATIONS](#)

[ELECTRIC CURRENT AND MAGNETISM](#)

[NUCLEAR PHYSICS AND CONDUCTIVITY](#)

[MODERN AND SPACE PHYSICS, SOURCES OF ENERGY](#)

[GENERAL CONCEPTS OF CHEMISTRY](#)

[NATURE OF MATTER AND COMPOSITION](#)

[ATOMIC STRUCTURE MOLECULES AND NUCLEAR CHEMISTRY](#)

CLASSIFICATION OF ELEMENTS, CHEMICAL BONDING, PERIODICITY IN PROPERTIES & PHYSICAL TRANSFORMATION

METALS, NON METALS, MINERALS, ORES, PROPERTIES, USES

ALLOYS, CARBON & ITS VARIOUS FORMS, HYDROGEN & COMPOUNDS, SULPHUR, NITROGEN, HALOGEN & INERT GASES

ACIDS, BASES, SALTS AND METALS

HYDROCARBON, ALCOHOL, POLYMER, ORGANIC ACID AND EXPLOSIVE SUBSTANCE

FUEL, FOOD PRESERVATION, NUTRITION, MEDICINE, DETERGENTS AND FERTILIZERS

INORGANIC CHEMISTRY ORGANIC CHEMISTRY ENVIRONMENTAL CHEMISTRY

SOME IMPORTANT MAN MADE MATERIALS SUB DIVISIONS OF BIOLOGY

GENETICS, EVOLUTION OF LIFE & ECOLOGICAL BIODIVERSITY TAXONOMY

HEREDITY BIOFERTILIZER

BIOLOGICAL CLASSIFICATION CELL TISSUES AND DIVISION HUMAN ANATOMY

BLOOD TRANSPORT SYSTEM DIGESTION AND EXCRETION PHOTOSYNTHESIS

VITAMINS, NUTRITION, HEALTH, DISEASE AND TREATMENT

ENDOCRINE GLANDS, HORMONES

PHYSIOLOGY OF PLANTS, HUMANS AND ANIMALS REPRODUCTION

FOOD PRODUCTION BIOLOGY IN HUMAN WELFARE

ECOLOGY AND ENVIRONMENT AWARENESS

GENETIC ENGINEERING AND BIO TECHNOLOGY

Q4. Answer: (a)

Q5. Answer: (b)

Since hard water contains soluble chloride and sulphate salts of calcium and magnesium it forms an insoluble curdy precipitate with soap.

$\text{C}_{17}\text{H}_{35}\text{COONa}$ (soluble sodium stearate (soap)) + CaCl_2 (calcium chloride (in hard water)) → $(\text{C}_{17}\text{H}_{35}\text{COO})_2$ (insoluble calcium stearate) + 2NaCl

$\text{C}_{17}\text{H}_{35}\text{COONa}$ (soluble sodium stearate) + MgSO_4 (Magnesium chloride (in hard water)) → $(\text{C}_{17}\text{H}_{35}\text{COO})_2$ (insoluble magnesium stearate (soap)) + $\text{Mg} + \text{Na}_2\text{SO}_4$

Q6. Answer: (c)

Q7. Answer: (a)

Q8. Answer: (a)

Both oxygen and moisture present in air cause rusting of iron.

Q9. Answer: (c)

Diamond, an allotrope of carbon, has very high refractive index because of which it is used as a gem in jewellery.

It is used for cutting glass, marble stones and other hard materials and for drilling rocks. It is a bad conductor of electricity. It is the hardest material known.

Q10. Answer: (c)

H_2O has an intermolecular hydrogen bond between its molecules ($\text{H}-\text{O}-\text{H} \cdots \text{H}-\text{O}-\text{H}$) while H_2S has weak van der Waal's forces between its molecules.

Hence the molecules of H_2O are more strongly packed than H_2S , thus water is a liquid state at room temperature.

Q11. Answer: (c)

These compounds are used in the manufacture of the following products.

Cellulose nitrate - Gun powder,

Potassium Sulphate - Fertiliser,

Potassium salts of fatty acids - Soft soap,

Calcium oxide - Glass.

Q12. Answer: (d)

Q13. Answer: (d)

Q14. Answer: (c)

Q15. Answer: (a)

Solid NaCl cannot conduct electricity as it does not have free ions for electrolytic conductance.

On our site **Careerions.com**, You can find all the content you need to prepare for any kind of exam like. **Verbal Reasoning, Non-Verbal Reasoning, Aptitude, English, Computer, History, Polity, Economy, Geography, General Science, General Awareness** & So on. Make use of our expert-curated content to get an edge over your competition and prepare for your exams effectively.

Practice with our **Free Practice MCQs, Mock Tests Series, Online Quiz** and get an idea of the real exam environment. Keep track of your progress with our detailed performance reports. They are perfect for competitive exam preparation, as well as for brushing up on basic & fundamental knowledge. The questions are updated regularly to keep up with the changing syllabuses.