

# ATOMIC STRUCTURE MOLECULES AND NUCLEAR 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

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**Q1.** Which of the following carries a negative charge?

- a) Alpha particles
  - b) Beta particles
  - c) X-rays
  - d) Gamma rays
- 

**Q2.** How many moles of hydrogen atom are present in one mole of Aluminium hydroxide ?

- a) Three moles
  - b) Two moles
  - c) one mole
  - d) Four moles
- 

**Q3.** What is the mass (in grams) of 3 moles of N?

- a) 42
  - b) 28
  - c) 14
  - d) 56
- 

**Q4.** A group of atoms chemically bonded together is a (an)

- a) ion
- b) salt

c) molecule

d) element

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**Q5.** The percentage of copper and oxygen in samples of CuO obtained by different methods were found to be the same. The illustrate the law of

a) conservation of mass

b) multiple proportions

c) constant proportions

d) reciprocal proportions

**Q6.** Members of which of the following have similar chemical properties ?

a) Isobars

b) Allotropes

c) Isotope

d) Both isotopes and allotropes

**Q7.** An  $\alpha$ -particle consists of which of the following?

a) 2 protons and 4 neutrons

b) 1 proton and 1 electron

c) 2 protons and 2 neutrons

d) 1 proton and 1 neutron

**Q8.** Constituents of atomic nucleus are

a) Electron and neutron

- b) Proton and neutron
  - c) Electron and proton
  - d) Proton, neutron and electron
- 

**Q9.** The correct symbol for silver is

- a) Si
  - b) Ar
  - c) Ag
  - d) Al
- 

**Q10.** The nucleus of a singly ionized carbon atom contains

- a) 6 protons, 6 neutrons and 6 electrons
  - b) 5 protons and 6 neutrons
  - c) 6 protons and 6 neutrons
  - d) 12 protons, 6 neutrons and 6 electrons
- 

**Q11.** What is the mass number of an element, the atom of which contains two protons, two neutrons and two electrons?

- a) 4
  - b) 6
  - c) 2
  - d) 8
- 

**Q12.** Which of the following is not a part of an atom?

- a) Proton
- b) Neutron
- c) Electron
- d) Photon

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**Q13.** The chemical symbol for barium is

- a) Ba
- b) Be
- c) B
- d) Bi

**Q14.** The molecular formula  $P_2O_5$  means that

- a) the ratio of the mass of P to the mass of O in the molecule is 2:5
- b) there are twice as many P atoms in the molecule as there are O atoms
- c) a molecule contains 2 atoms of P and 5 atoms of O
- d) the ratio of the mass of P to the mass of O in the molecule is 5 : 2

**Q15.** Which of the following pairs is/are correctly matched?

- Isotopes : Atoms with same atomic number but different atomic mass
- Isobars : Atoms with same number of neutrons but different atomic number
- Isotones : Atoms with same mass number but different atomic number

Select the correct answer using the code given below : Code :

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

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**Answers to the above questions :**

**Q1. Answer: (b)**

**Q2. Answer: (a)**

**Q3. Answer: (a)**

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**Q4. Answer: (c)**

In a molecule two or more than two atoms are covalently bonded with each other.

**Q5. Answer: (c)**

Constant proportions according to which "a pure chemical compound always contains same elements combined together in the same definite proportion of weight."

**Q6. Answer: (b)**

**Q7. Answer: (c)**

**Q8. Answer: (b)**

**Q9. Answer: (c)**

**Q10. Answer: (c)**

**Q11. Answer: (a)**

**Q12. Answer: (d)**

**Q13. Answer: (a)**

**Q14. Answer: (c)**

**Q15. Answer: (b)**

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