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

- Q1. The Nucleus of Helium has
- a) Two protons
- b) Two protons and two neutrons
- c) Only one neutron
- d) One proton and two neutrons

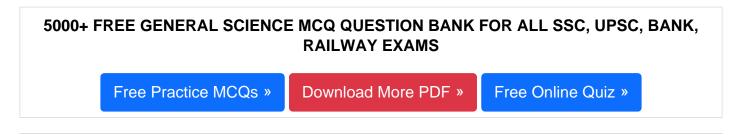
Q2. Which one among the following is correct regarding 20 Ne, 23 Na+, 19 F– and 24 Mg²⁺?

- a) They are isoelectronic with each other
- b) They are isotopes of each other
- c) They are isomers of each other
- d) All of the above
- Q3. Radioactivity was discovered by
- a) Becquerel
- b) Bohr
- c) Rutherford
- d) Madam Curie

Q4. In an atom valence electron are present in

- a) next to outermost orbit
- b) first orbit

d) any one of its orbit



Q5. The alpha particle carries two positive charges. Its mass is very nearly equal to that of

- a) An atom of helium
- b) Sum of masses of two positrons and two neutrons
- c) Two protons
- d) Two positrons are each positron carries a single positive charge

Q6. While performing cathode ray experiments, it was observed that there was no passage of electric current under normal conditions. Which of the following can account for this observation ?

- a) Carbon dioxide is present in air
- b) Air is a poor conductor of electricity under normal conditions
- c) Dust particles are present in air
- d) None of these

Q7. Which one of the following laws explains the formation of carbon monoxide and carbon dioxide from carbon and oxygen?

- a) Law of multiple proportions
- b) Law of reciprocal proportions
- c) Law of conservation of mass
- d) Law of difinite proportions

Q8. Which of the following statement about molecular structure is correct?

a) Electron and proton are inside the nucleus and neutron revolve around the nucleus

b) Proton and neutron are inside the nucleus and electrons revolve around the nucleus

c) Neutron and electron are found inside the nucleus and protons revolves around the nucleus

d) Proton, neutron and electron all are inside the nucleus

Q9. Protons and neutrons are bound in a nucleus by the

a) long range 'electromagnetic interaction'

b) short range 'strong interaction'

- c) short range 'weak interaction'
- d) long range 'gravitational interaction'

Q10. One gram of which of the following contains largest number of oxygen atoms?

a) O₂

b) O₃

- c) O
- d) All contains same

Q11. What is the number of water molecules present in a tiny drop of water (volume 0.0018 ml) at room temperature?

a) 6.023 × 10¹⁹

- b) 4.184 × 10¹⁸
- c) 4.84×10^{17}
- d) 6.023 × 10²³

Q12. Which of the following is not a subatomic particle?

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



- **Q13.** In an atom, the order of filling up of the orbitals is governed by
- a) Heisenberg's uncertainty principle
- b) Hund's rule
- c) Aufbau's principle
- d) Pauli's exclusion principle

Q14. The atomic weights are expressed in terms of atomic mass unit. Which one of the following is used as a standard?

- a) ¹⁶O₈
- b) ¹²C₆
- c) ¹H₁
- d) ³⁵Cl₁₇

Q15. Which of the following describes an isotope with a mass number of 99 that contains 56 neutrons in its nucleus ?

- a) \$?43?56{Ba}\$
- b) \$?99?43{Tc}\$
- c) \$?99?56{Ba}\$
- d) \$?56?43{Tc}\$

Read More chemistry basic Question and Answes »

Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (a)

Q3. Answer: (a)

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: (c)

Q5. Answer: (a)

Q6. Answer: (b)

Q7. Answer: (a)

Law of multiple proportions explains the formation of CO and CO_2 , in these same weight of carbon that combines with weights of oxygen are in simple rate of 1 : 2.

Q8. Answer: (b)

Q9. Answer: (b)

Q10. Answer: (b)

The no. of atoms in O_3 is maximum i.e., 3

Q11. Answer: (a)

Q12. Answer: (b)

Q13. Answer: (c)

Q14. Answer: (b)

Q15. Answer: (b)

Given mass number (Z) = 99

No. of neutrons = 56

? No. of protons = atomic number = 99 - 56 = 43

i.e., \$?56?43{Tc}\$

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 expertcurated 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.