

CLASS: XI CHEMISTRY
CHAPTER#02
ATOMIC STRUCTURE
BY: SIR AAMIR HULLIO

1. Cathode rays are deflected by
(a) electric field only (b) magnetic field only (c) electric and magnetic field (d) none of these
2. The e/m value for the particles constituting cathode rays is the same regardless of
(a) the gas present in cathode rays tube (b) the metal of which cathode was made
(c) both of these (d) none of these
3. The charge to mass ratio (e/m) of positive particles
(a) varies with the nature of gas in discharge tube (b) is independent of the gas in discharge tube
(c) is constant (d) none of the above
4. A sub atomic particle which has one unit mass and one unit positive charge is known as
(a) hydrogen atom (b) neutron (c) electron (d) proton
5. Atomic number of an element is equal to the number of _____ in the nucleus of the atom.
(a) neutrons (b) protons (c) both the neutrons and protons (d) electrons
6. The mass number of an atom is equal to the number of _____ in the nucleus of an atom
(a) protons (b) neutrons (c) electrons (d) nucleons
7. The mass number and atomic number of Phosphorus atom are 31 and 15 respectively. The number of neutrons in the nucleus is
(a) 15 (b) 16 (c) 31 (d) 46
9. In a sodium atom (atomic number = 11 and mass number = 23), the number of neutrons is
(a) equal to the number of protons (b) less than the number of protons
(c) greater than the number of protons (d) none of these
10. Which of the following is not correct for electromagnetic waves?
(a) the wavelength is the distance between two successive crests
(b) the frequency is the number of waves which pass a given point in one second
(c) the velocity of a wave is the distance covered by the particular wave in one second
(d) all electromagnetic waves have equal wavelengths
11. If Z is the number of proton and A the number of nucleons, then the number of neutrons is an atom is given by
(a) $A + Z$ (b) $A - Z$ (c) $Z - A$ (d) none of these
12. The mass number and atomic number of Phosphorus atom are 31 and 15 respectively. The number of neutrons in the nucleus is
(a) 15 (b) 16 (c) 31 (d) 46
11. Which of the following relations is not correct?
(a) $c = \lambda \times \mu$ (b) $\mu = 1/f$ (c) $\mu = 1/\lambda$ (d) $\lambda = c + \mu$
12. The unit in which wave number is measured
(a) hertz (b) sec^{-1} (c) nanometer (d) cm^{-1}
13. In the spectrum of hydrogen atom, the series which falls in ultraviolet region is
(a) Lyman series (b) Balmer series (c) Paschen series (d) Brackett series
14. The Balmer series in the spectrum of hydrogen atom falls in
(a) ultraviolet region (b) visible region (c) infrared region (d) none of these
21. The radius of first orbit in hydrogen atom is 0.529 \AA . The radius of second orbit is given by
(a) $\frac{1}{2} \times 0.529 \text{ \AA}$ (b) $2 \times 0.529 \text{ \AA}$ (c) $4 \times 0.529 \text{ \AA}$ (d) $8 \times 0.529 \text{ \AA}$

Atomic Structure Ch 4 Packet Answers

T. W. Graham Solomons



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Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual T. W. Graham Solomons, 1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry

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Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry McMurry, Susan McMurry, 1990

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