

**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 in 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)  $\text{sec}^{-1}$  (c) nanometer (d)  $\text{cm}^{-1}$
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  $0.529 \text{ \AA}$ . 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

**Kenneth W. Raymond**



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**Organic Chemistry, 13e Student Study Guide and Solutions Manual** T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2022-05-03 Organic Chemistry Student Study Guide and Solutions Manual 13th Edition offers the full solutions for select exercises from the text Organic Chemistry, 12e Binder Ready Version Study Guide & Student Solutions Manual T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016-04-11 This is the Student Study Guide Solutions Manual to accompany Organic Chemistry 12th Edition The 12th edition of Organic Chemistry continues Solomons Fryhle Snyder's tradition of excellence in teaching and preparing students for success in the organic classroom and beyond A central theme of the authors' approach to organic chemistry is to emphasize the relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors' philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors' approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us Organic Chemistry, 5e Student Study Guide and Solutions Manual David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry *Organic Chemistry, 4e Student Solution Manual and Study Guide* David R. Klein, 2021-01-07 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Solution Manual and Study Guide 4th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry **Organic Chemistry, Study Guide and Solutions Manual** T. W. Graham Solomons, Craig B. Fryhle, 2000 On the cover of this book is a Pacific yew tree found in the ancient forests of the Pacific Northwest The bark of the Pacific yew tree produces Taxol found to be a highly effective drug against ovarian and breast cancer Taxol blocks mitosis during eukaryotic cell division The supply of Taxol from the Pacific yew tree is vanishingly small however A single 100 year old tree provides only about one dose of the drug roughly 300 mg For this reason as well as the spectacular molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It's just one of the many

examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry

Study Guide with Selected Solutions Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems

*Study Guide and Solutions Manual for McMurry's Organic Chemistry, Fifth Edition* Susan McMurry, 2000 Provides answers and explanations to all in text and end of chapter exercises Also includes summaries of name reactions functional group synthesis and reactions lists of reagents and abbreviations and articles on topics ranging from infrared absorption frequencies to the Nobel Price winners in Chemistry

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*Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry* Katherine J. Denniston, Denniston Katherine, 2006

Study Guide with Answers to Selected Problems H. Stephen Stoker, Danny V. White, 2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises

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