

Science

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(Chapter – 4) (Structure of the Atom) (Exercises)

(Class – IX)

Question 1:

Compare the properties of electrons, protons and neutrons.

Answer 1:

Electron	Proton	Neutron
(i) Electron are present outside the nucleus of an atom.	(i) Proton are present in the nucleus of an atom.	(i) Neutron are present in the nucleus of an atom.
(ii) Electron are negatively charged	(ii) Proton are positively charged.	(ii) Neutron are neutral.
(iii) The mass of an electron is considered to negligible.	(iii) The mass of a proton is approximately 2000 times as the mass of an electron	(iii) The mass of neutron is nearly equal to the mass of a proton.

Question 2:

What are the limitations of J.J. Thomson's model of the atom?

Answer 2:

According to J.J. Thomson's model of an atom, an atom consists of a positively charged sphere with electrons embedded in it. However, it was later found that the positively charged particles reside at the center of the atom called the nucleus, and the electrons revolve around the nucleus.

Question 3:

What are the limitations of Rutherford's model of the atom?

Answer 3:

According to Rutherford's model of an atom, electrons revolve around the nucleus in fixed orbits. But, an electron revolving in circular orbits will not be stable because during revolution, it will experience acceleration. Due to acceleration, the electrons will lose energy in the form of radiation and fall into the nucleus. In such a case, the atom would be highly unstable and collapse.

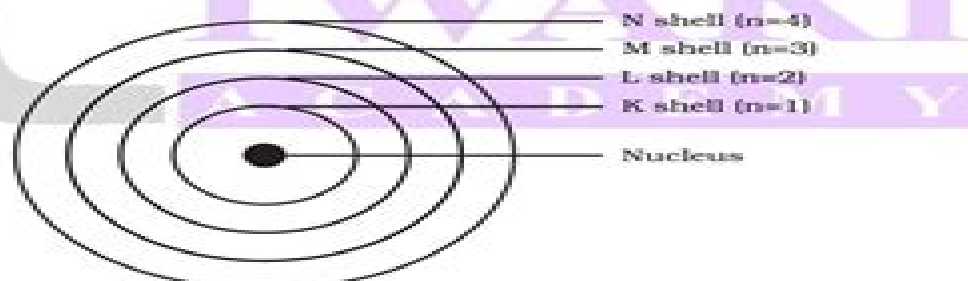
Question 4:

Describe Bohr's model of the atom.

Answer 4:

Bohr's model of the atom Niels Bohr proposed the following postulates regarding the model of the atom.

- Only certain orbits known as discrete orbits of electrons are allowed inside the atom.
- While revolving in these discrete orbits, the electrons do not radiate energy. These discrete orbits or shells are shown in the following diagram.



The first orbit (i.e., for $n = 1$) is represented by letter K. Similarly, for $n = 2$, it is L - shell, for $n = 3$, it is M - shell and for $n = 4$, it is N - shell. These orbits or shells are also called energy levels.

Answers For Ncert Class 9 Science

Terry C. Jones



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Table of Contents Answers For Ncert Class 9 Science

1. Understanding the eBook Answers For Ncert Class 9 Science
 - The Rise of Digital Reading Answers For Ncert Class 9 Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Ncert Class 9 Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Ncert Class 9 Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Ncert Class 9 Science
 - Personalized Recommendations
 - Answers For Ncert Class 9 Science User Reviews and Ratings
 - Answers For Ncert Class 9 Science and Bestseller Lists
5. Accessing Answers For Ncert Class 9 Science Free and Paid eBooks
 - Answers For Ncert Class 9 Science Public Domain eBooks
 - Answers For Ncert Class 9 Science eBook Subscription Services
 - Answers For Ncert Class 9 Science Budget-Friendly Options
6. Navigating Answers For Ncert Class 9 Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Ncert Class 9 Science Compatibility with Devices
 - Answers For Ncert Class 9 Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Ncert Class 9 Science
 - Highlighting and Note-Taking Answers For Ncert Class 9 Science
 - Interactive Elements Answers For Ncert Class 9 Science
8. Staying Engaged with Answers For Ncert Class 9 Science

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answers For Ncert Class 9 Science
- 9. Balancing eBooks and Physical Books Answers For Ncert Class 9 Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Ncert Class 9 Science
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Ncert Class 9 Science
 - Setting Reading Goals Answers For Ncert Class 9 Science
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Ncert Class 9 Science
 - Fact-Checking eBook Content of Answers For Ncert Class 9 Science
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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