

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.

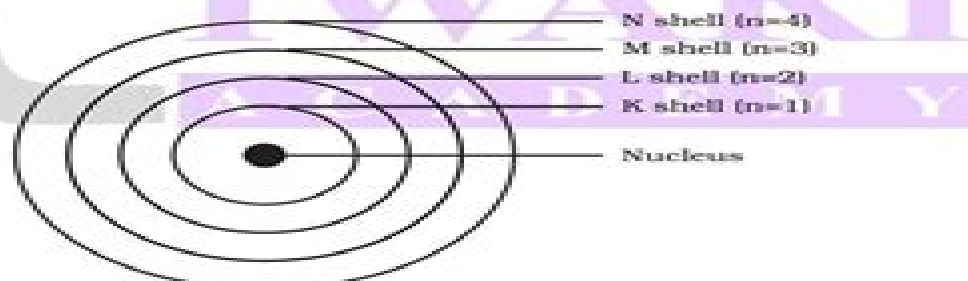
Question 4:

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.

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In a world inundated with displays and the cacophony of quick conversation, the profound power and psychological resonance of verbal beauty often fade in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the musical pages of **Answer Of Ncert Class 9th**, a interesting work of literary elegance that impulses with fresh emotions, lies an wonderful trip waiting to be embarked upon. Written with a virtuoso wordsmith, this enchanting opus instructions visitors on a psychological odyssey, softly revealing the latent possible and profound influence embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is central styles, dissect their captivating writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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