

# 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.

# Investment Science Chapter 4

**D Siedentop**



## Investment Science Chapter 4:

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Rosenkrantz,2008-07-10 Integrating interesting and widely used concepts of financial engineering into traditional statistics courses Introduction to Probability and Statistics for Science Engineering and Finance illustrates the role and scope of statistics and probability in various fields The text first introduces the basics needed to understand and create [Banker Diploma - City of London College of Economics - 7 months - 100% online / self-paced](#) City of London College of Economics, Overview This diploma course focuses on the theory and practice of banking and its prospects in the new millennium It is written for students in banking and finance at Masters MBA or advanced undergraduate level Bank practitioners who wish to deepen and broaden their understanding of banking issues may also be attracted to this course Content What are banks and what do they do Diversification of bank activities Management of risks in banking Global regulation of banks Bank structure and regulation UK USA Japan EU Banking in emerging economies Bank failures Financial crises Competitive issues in banking Case studies Duration 7 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link *Fixed Income Investing* Thomas Poufinas,2022-03-28 Fixed income investments have been a topic of broad interest in particular for institutional investors such as insurance companies and pensions schemes They were considered safe heavens in turbulent times by almost all other institutional and individual investors and are used for strategies such as portfolio immunization and asset liability matching ALM The latest crisis however revealed some of the weaknesses of fixed income instruments They proved to be not as safe as originally thought with both credit and interest rate risks emerging Consequently fixed income investments have been in the spotlight once more This book presents all aspects pertaining to fixed income investments starting from the basics i e the types of bonds their valuation the interest rate term structure then moving to fixed income portfolio management and the interest rate and credit derivatives and their relevant markets funds risks and risk management Finally the book addresses contemporary issues such as their behavior in times of crisis their relation to debt their coexistence with equity and the current regulatory environment This book providing a look at the broader environment of fixed income alongside the current market structure will be of interest to students academics researchers and practitioners in fixed income and investing strategies *Financial Engineering and Computation* Yuh-Dauh Lyuu,2002 A comprehensive text and reference first published in 2002 on the theory of financial engineering with numerous algorithms for pricing risk management and portfolio management [Integrated Management](#) Robert Sroufe,2025-04-09 Building on the award winning success of the first edition Integrated Management offers Initiatives we would want to achieve regardless of their proven positive impacts on a single bottom line as they are practices that benefit the environment and society in dynamic ways that for too long have been

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Investment Science Chapter 4**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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