

Question	Answer	Marks	Guidance
1 (a) (i)	94 protons	1	This is the proton number Z .
1 (a) (ii)	145 neutrons	1	Number of neutrons is found from (nucleon number - proton number) = $(A - Z) = 239 - 94$
1 (a) (iii)	93 electrons	1	A neutral atom would have 94 electrons (= number of protons Z). This ion has a charge of $+e$ ($+1.6 \times 10^{-19}$ C), showing that there is one electron missing.
1 (b)	isotopes have same number of protons (or the same Z) but a different number of neutrons (or nucleons, or a different A)	1 1	You need to remember how isotopes are defined.
2 (a) (i)	$X =$ a neutrino ${}_{29}^{64}\text{Cu} \rightarrow {}_{28}^{64}\text{Ni}$ ${}_{-1}^0\beta + \nu$	1 1 1	The proton number and nucleon number must balance on both sides of the equation.
2 (a) (ii)	The copper nucleus has the greater specific charge because it has a charge of $+29e$ whereas the nickel nucleus has a charge of $+28e$ and they both have the same mass (to 2 significant figures).	1 1	The proton number gives you the total number of positively-charged protons in the nucleus.
2 (a) (iii)	specific charge = $\frac{29e}{64m_u}$ $= \frac{29 \times 1.6 \times 10^{-19}}{64 \times 1.67 \times 10^{-27}}$ $= 4.3 \times 10^7 \text{ C kg}^{-1}$	1 1 1	To find the specific charge, simply divide the charge by the mass of the nucleus. Each proton carries a positive charge of $+e$.
2 (b) (i)	udd	1	It's useful to know this.
2 (b) (ii)	An up quark in a proton changes into a down quark so the proton becomes a neutron. At the same time, the up quark emits a W^+ boson when it changes into a down quark and the W^+ boson decays into a β^+ particle and a neutrino.	1 1	Make sure you don't forget the neutrino in this kind of interaction.
3 (a)	$\pi^+ + p \rightarrow n + \pi^+ + K^+$	1	All that is required is to translate the words of the question into symbols.

Atomic Nuclei Section 1 Answers

Liyong Dong



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Understanding Essential Chemistry Max Diem, 2025-05-09 Enables students to understand apply and retain key concepts in general chemistry Understanding Essential Chemistry offers a unique and approachable supplement to standard general chemistry textbooks designed specifically to aid students in mastering fundamental principles Drawing on extensive classroom experience chemistry professor Max Diem presents key concepts in an uninterrupted flow allowing students to follow a clear and straightforward path to comprehension With a logical algebraic framework the book is structured to build students confidence by breaking down complex topics into manageable pieces and encouraging critical thinking at every step Aimed at STEM majors this book includes checkpoints with example problems and final answers to reinforce concepts and promote independent problem solving skills By methodically emphasizing basic understanding this hands on guide gives students the tools to grasp the core chemistry principles necessary for success in their courses labs and future studies A must have survival guide to boost student confidence in the subject the text Presents chemistry concepts in a streamlined continuous format for easier comprehension and retention Encourages independent critical thinking with targeted example problems with provided solutions Supports any primary general chemistry textbook making it adaptable for various curricula Allows students to assess their understanding at key points in the material Includes additional math tutorials in the Chapter for students needing a refresher in essential mathematical skills This guide is an essential supplement for undergraduate first year Chemistry courses for STEM majors especially those in pre medical engineering and science programs

ESSENTIALS OF PHYSICS SANJAY MORESHWAR WAGH, DILIP ABASAHEB DESHPANDE, 2012-09-27 Physics is our attempt to conceptually grasp all the happenings around us Then realizing that concepts are the free creations of the human mind helps us develop proper understanding of a subject especially during formative stages This introductory book on Physics presents careful analysis of the develop ments of basic concepts for the beginners It is written in a way that stimulates students and creates a sustained interest in Physics so that studying the subject is enjoyable and satisfying The physical concepts are explained clearly enough for anyone to understand In this text the exercises are provided in three different categories namely as questions as problems and as multiple choice questions The first category of exercises contains thought provoking and descriptive questions The second category of exercises involves numerical computations The third category of exercises of multiple choice questions provides a reader with a flavour of the currently popular mode of examination Intended for the introductory level college physics courses the book will also be an invaluable resource for the students preparing for various competitive examinations Key Features Readers can modify the given situation to design questions and problems Solved examples provide quantitative as well as qualitative features of physical situations encountered in the real life Students will be able to visualize the applicability of the laws of physics

Essential Cell Biology Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander D Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter

Walter,2015-01-01 Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology and its lively clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology The text and figures are easy to follow accurate clear and engaging for the introductory student Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology including the biomedical sciences The Fourth Edition has been thoroughly revised and covers the latest developments in this fast moving field yet retains the academic level and length of the previous edition The book is accompanied by a rich package of online student and instructor resources including over 130 narrated movies an expanded and updated Question Bank Essential Cell Biology Fourth Edition is additionally supported by the Garland Science Learning System This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class as well as individual students via the instructor dashboard Students receive immediate feedback on their mastery of the topics and will be better prepared for lectures and classroom discussions The user friendly system provides a convenient way to engage students while assessing progress Performance data can be used to tailor classroom discussion activities and lectures to address students needs precisely and efficiently For more information and sample material visit <http://garlandscience.rocketmix.com>

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historical context adding interest to them and removing much of their apparently arbitrary aspect The large number of references to all significant topics mentioned should make this book useful not only to undergraduates but also to graduate students and academic and industrial researchers

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Ross & Wilson Anatomy and Physiology in Health and Illness Anne Waugh, Allison Grant, 2018-07-12 The new edition of the hugely successful Ross and Wilson Anatomy Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner Fully updated throughout the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier The 13th edition retains its popular website which contains a wide range of critical thinking exercises as well as new animations an audio glossary the unique Body Spectrum online colouring and self test program and helpful weblinks Ross and Wilson Anatomy Physiology in Health and Illness will be of particular help to readers new to the subject area those returning to study after a period of absence and for anyone whose first language isn't English Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear no nonsense writing style helps make learning easy Accompanying website contains animations audio glossary case studies and other self assessment material the unique Body Spectrum online colouring and self test software and helpful weblinks Includes basic pathology and pathophysiology of important diseases and disorders Contains helpful learning features such as Learning Outcomes boxes colour coding and design icons together with a stunning illustration and photography collection Contains clear explanations of common prefixes suffixes and roots with helpful examples from the text plus a glossary and an appendix of normal biological values Particularly valuable for students who are completely new to the subject or returning to study after a period of absence and for anyone whose first language is not English All new illustration programme brings the book right up to date for today's student Helpful Spot Check questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and or life threatening diseases and disorders Review and Revise end of chapter exercises assist with reader understanding and recall

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