

Chapter Test B

Atomic Physics

MULTIPLE CHOICE

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. What is the frequency of a photon with an energy of $1.00 \times 10^{-19} \text{ J}$?
 ($h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$)
- | | |
|-------------------------------------|-------------------------------------|
| a. $1.00 \times 10^{19} \text{ Hz}$ | c. $3.00 \times 10^{12} \text{ Hz}$ |
| b. $2.00 \times 10^{12} \text{ Hz}$ | d. $4.00 \times 10^{12} \text{ Hz}$ |
- _____ 2. Light with an energy equal to three times the work function of a given metal causes the metal to eject photoelectrons. What is the ratio of the maximum photoelectron kinetic energy to the work function?
- | | |
|----------|----------|
| a. 1 : 1 | c. 3 : 1 |
| b. 2 : 1 | d. 4 : 1 |
- _____ 3. A monochromatic light beam with a quantum energy value of 3.0 eV is incident upon a photocell. The work function of the photocell is 1.6 eV. What is the maximum kinetic energy of the ejected electrons?
- | | |
|-----------|-----------|
| a. 4.6 eV | c. 1.4 eV |
| b. 4.8 eV | d. 2.4 eV |
- _____ 4. What causes the bright lines in the emission spectrum of an element to occur?
- Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
 - Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
 - Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
 - Photons are emitted when electrons jump from a lower-energy to a higher-energy state.
- _____ 5. What causes the dark lines in the absorption spectrum of an element to occur?
- Photons are absorbed when electrons jump from a higher-energy to a lower-energy state.
 - Photons are emitted when electrons jump from a higher-energy to a lower-energy state.
 - Photons are absorbed when electrons jump from a lower-energy to a higher-energy state.
 - Photons are emitted when electrons jump from a lower-energy to a higher-energy state.

Physical Science Chapter 10 Test A

Lei Huang



Physical Science Chapter 10 Test A:

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science

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Chemical news and Journal of physical science ,1871 **Bulletin** ,1920 *Physical science* Jay M. Pasachoff,LeVon Balzer,Phyllis L. Goodson,Ann Collins,1983 *TASC For Dummies* Stuart Donnelly,2016-10-03 Everything you need to pass the TASC If you re looking to gauge your readiness for the high school equivalency exam and want to give it all you ve got TASC For Dummies has everything you need The TASC Test Assessing Secondary Completion is a state of the art affordable national high school equivalency assessment that evaluates five subject areas reading writing mathematics science and social studies With the help of this hands on friendly guide you ll gain the confidence and skills needed to score your highest and gain your high school diploma equivalency Helps you measure your career and college readiness as outlined by the Common Core State Standards Focuses entirely on the 5 sections of the TASC and the various question types you ll encounter on test day Includes two full length TASC practice tests with complete answers and explanations So far New York Indiana New Jersey West Virginia Wyoming and Nevada have adopted TASC as their official high school equivalency assessment test If you re a resident of one of these states and want an easy to grasp introduction to the exam TASC For Dummies has you covered Written in plain English and packed with tons of practical and easy to follow explanations it gets you up to speed on this alternative to the GED *Critical Appraisal of Physical Science as a Human Enterprise* Mansoor Niaz,2009-02-07 It is generally believed that doing science means accumulating empirical data with no or little reference to the interpretation of the data based on the scientist s th retical framework or presuppositions Holton 1969a has deplored the widely accepted myth experimenticism according to which progress in science is presented as the inexorable result of the pursuit of logically sound conclusions from un biguous experimental data Surprisingly some of the leading scientists themselves Millikan is a good example have contributed to perpetuate the myth with respect to modern science being essentially empirical that is

carefully tested experimental facts free of a priori conceptions leading to inductive generalizations Based on the existing knowledge in a field of research a scientist formulates the guiding assumptions Laudan et al 1988 presuppositions Holton 1978 1998 and hard core Lakatos 1970 of the research program that constitutes the imperative of presuppositions which is not abandoned in the face of anomalous data Laudan and his group consider the following paraphrase of Kant by Lakatos as an important guideline philosophy of science without history of science is empty Starting in the 1960s this historical school has attempted to redraw and replace the positivist or logical empiricist image of science that dominated for the first half of the twentieth century Among other aspects one that looms large in these studies is that of guiding assumptions and has considerable implications for the main thesis of this monograph Chapter 2

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The Chemical News and Journal of Physical Science ,1907 *Chemical News and Journal of Physical Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1900 *The Elements of Physical Science, Demonstrated by the Student's Own Experiments and Observations* Gustavus Detlef Hinrichs,1870 **College Physical Science** Vaden Willis Miles,George Ray Sherwood,Willard Hall Parsons,1969 Holt Physical Science William L. Ramsey,1997-11 **Physics** Physical Science Study Committee,1957 *Scott Foresman Science* ,2008 **Climate Change 2007 - The Physical Science Basis** Intergovernmental Panel on Climate Change,Intergovernmental Panel on Climate Change. Working Group I.,2007-09-10 The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provide the most comprehensive and balanced assessment of climate change available This IPCC Working Group I report brings us completely up to date on the full range of scientific aspects of climate change Written by the world's leading experts the IPCC volumes will again prove to be invaluable for researchers students and policymakers and will form the standard reference works for policy decisions for government and industry worldwide **Climate Change 2021 - The Physical Science Basis** Intergovernmental Panel on Climate Change (IPCC),2023-07-26 The Working Group I contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the physical science basis of climate change It considers in situ and remote observations paleoclimate information understanding of climate drivers and physical chemical and biological processes and feedbacks global and regional climate modelling advances in methods of analyses and insights from climate services It assesses the current state of the climate human influence on climate in all regions future climate change including sea level rise global warming effects including extremes climate information for risk assessment and regional adaptation limiting climate change by reaching net zero carbon dioxide emissions and reducing other greenhouse gas emissions and benefits for air quality The report serves policymakers decision makers stakeholders and all interested parties with the latest policy relevant information on climate change Available as Open Access on Cambridge Core **Teacher's Manual to Accompany Physical Science** Frederick J. Bueche,1972 **An Introduction to Physical Science** James T. Shipman,Jerry D. Wilson,Aaron W. Todd,2002-07-08 This

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