

**AP[®] PHYSICS C ELECTRICITY & MAGNETISM
2006 SCORING GUIDELINES**

Question 2

15 points total

**Distribution
of points**

(a) 4 points

From Kirchhoff's loop rule, the sum of the potential differences around the circuit is zero.

For any statement of the loop rule

$$\mathcal{E} - V_R - V_C = 0$$

For correct substitution of the potential differences across both resistor and capacitor

$$\mathcal{E} - iR_1 - \frac{q}{C} = 0$$

For substituting the differential definition of current

$$i = \frac{dq}{dt}$$

For a correct answer including correct signs (a correct answer with no supporting work was awarded full credit)

$$\mathcal{E} - R_1 \frac{dq}{dt} - \frac{q}{C} = 0$$

Alternate solution

For a correct exponential expression for current as a function of time

$$I = I_0 e^{-t/R_1 C}$$

For applying Ohm's law to determine the initial current

$$I_0 = \frac{\mathcal{E}}{R_1}$$

For substituting the differential definition of current

$$I = \frac{dq}{dt}$$

For a correct answer (a correct answer with no supporting work was awarded full credit)

$$\frac{dq}{dt} = \frac{\mathcal{E}}{R_1} e^{-t/R_1 C}$$

1 point

1 point

1 point

1 point

Alternate points

1 point

1 point

1 point

1 point

2006 Ap Physics Scoring Guide

Princeton Review



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The College Board College Handbook 2006 College Board,2005-07-20 The easy way to find and compare schools fast

Guide to College Visits Princeton Review,2007-04-10 A practical handbook covers everything needed to plan a successful visit to campuses across the country with information on nearby accommodations for every budget the best and worst times to visit itineraries and campus tours *Fiske what to Do when for College, 2005-2006* Edward B. Fiske,Bruce G. Hammond,2005 Don t miss important college deadlines Finally all of the dates deadlines and tasks college applicants and their frazzled parents need to stay on top of are in one place Fiske What to Do When for College This hands on planner guides students through the last few years of high school to the SAT and ACT to making sure applications are in on time The innovative calendar format encourages families to return to the book again and again to write down all important deadlines and appointments The calendar includes all important dates Early and regular admissions at every selective college Major scholarship deadlines Financial aid deadlines Housing deadlines SAT and ACT deadlines ROTC and service academy deadlines Features Fiske and Hammond s best advice addressing college visits standardized testing essay writing prep courses AP exams career choices and much more

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Interaction of Food Macromolecules Ibrahim Khalifa,Zou Xiaobo,Soottawat Benjakul,2025-10-06 Interaction of Food Macromolecules The Matrix of Future Foods provides a detailed understanding on why biological macromolecules i e proteins lipids and carbohydrates with ligands interactions are essential to understanding biology at the molecular level The book aims to create a multidisciplinary forum of discussion on the interaction between macromolecules and ligands providing an understanding on how biological macromolecules with ligands interactions are central to facilitating the discovery design and development of future functional foods In addition it outlines information available on the macromolecules ligands interaction that happens inside the food matrixes and inside our bodies Knowing about the mechanisms responsible for the macromolecules ligands recognition and binding facilitates the discovery design and development of future and functional foods Discusses how the interaction between macromolecules and ligands facilitates the discovery design and development of future functional foods Shows how macromolecules can affect foods stability functionality physicochemical behaviors and bioavailability Outlines how binding models such as lock and key induced fit and conformational selection of macromolecule ligands affect the overall properties of food and foodstuffs

The College Admissions Officer's Guide Barbara Lauren, 2008 **Cracking the SAT Math 1 and 2 Subject Tests** Jonathan Spaihts, Princeton Review (Firm), 2005-03 Provides formulas tips strategies and examples for acing the SAT II and includes four full length sample exams **ACT**, 2006 **Kaplan ACT** Kaplan, 2005-12 Powerful Practical tools to help you score higher plus a CD Rom **Medical School Admission Requirements** 2005-2006 Association of American Medical Colleges, Meredith T Moller, 2004 The most up to date information on applications procedures and deadlines tuition and student fees and statistics on acceptance rates from every accredited medical school in the United States and Canada For people who are just thinking about medicine as a career we've also provided an overview of the entire application and medical school process with a timeline to help you get started **Guide to College Majors 2008** Princeton Review (Firm), 2008-02-05 Fully revised and updated for 2008 this resource includes the most current information available on more than 350 of the most popular majors Each profile includes an overview of the major career options and earning potential sample college curricula and more *Oxford Handbook of Personality Assessment* James N. Butcher, 2009-07-14 Oxford Handbooks offer authoritative and up to date reviews of original research in a particular subject area Specially commissioned chapters from leading figures in the discipline give critical examinations of the progress and direction of debates as well as a foundation for future research Oxford Handbooks provide scholars and graduate students with compelling new perspectives upon a wide range of subjects in the humanities social sciences and sciences As one of psychology's oldest fields personality assessment is one of the most extensively studied subsets of contemporary psychology The Oxford Handbook of Personality Assessment synthesizes new and existing literature with clinical practice to provide a comprehensive volume on contemporary personality assessment including its historical developments underlying methods applications contemporary issues and assessment techniques This handbook part of the Oxford Library of Psychology addresses both the historical roots of personality assessment and the evolution of its contemporary methodological tenets thus providing a foundation for the handbook's other innovative focus the application of personality assessment in clinical personnel and forensic assessments With a wealth of respected international contributors and unequalled breadth of content the Oxford Handbook of Personality Assessment offers an authoritative and field encompassing resource for researchers and clinicians from across the medical health and psychology disciplines i.e. clinical psychology psychiatry and social work and would be an ideal text for any graduate course on the topic of personality assessment **Hierarchical Linear Modeling** G. David Garson, 2013 This book provides a brief easy to read guide to implementing hierarchical linear modeling using three leading software platforms followed by a set of original how to applications articles following a standard instructional format The guide portion consists of five chapters by the editor providing an overview of HLM discussion of methodological assumptions and parallel worked model examples in SPSS SAS and HLM software The applications portion consists of ten contributions in which authors provide step by step presentations of how HLM is implemented and reported for introductory to intermediate

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