

1990 M2c



1. A force  $F$  is exerted by a frictionless handle on the head of the beam, which has a mass  $m$ . The handle is at an angle  $\theta$  to the horizontal, as shown above. The work done by the force on the head of the beam as it moves a distance  $l$  across a horizontal floor is:  
 a.  $F l \sin \theta$     b.  $F l \cos \theta$     c.  $F m \cos \theta$     d.  $F m \tan \theta$     e.  $F m l \sin \theta$
2. The velocity of a projectile at launch has a horizontal component  $v_x$  and a vertical component  $v_y$ . Air resistance is negligible. When the projectile is at the highest point of its trajectory, which of the following show the vertical and horizontal components of its velocity and the vertical component of its acceleration?

	Vertical Velocity	Horizontal Velocity	Vertical Acceleration
a.	$v_y$	$v_x$	0
b.	$v_y$	0	0
c.	0	$v_x$	0
d.	0	0	g
e.	0	$v_x$	g



3. The graph above shows the velocity  $v$  as a function of time  $t$  for an object moving in a straight line. Which of the following graphs shows the corresponding displacement  $x$  as a function of time  $t$  for the same time interval?



4. The position of a toy locomotive moving on a straight track along the  $x$ -axis is given by the equation:  $x = t^3 - 6t^2 + 9t$ , where  $x$  is in meters and  $t$  is in seconds. The net force on the locomotive is equal to zero when  $t$  is equal to:  
 a. 0 m    b. 2 s    c. 3 s    d. 4 s    e. 5 s



5. A system of two wheels fixed to each other is free to rotate about a frictionless axis through the common center of the wheels and perpendicular to the page. Four forces are exerted tangentially to the rims of the wheels, as shown above. The magnitude of the net torque on the system about the axis is:  
 a. zero    b.  $2FR$     c.  $3FR$     d.  $5FR$     e.  $14FR$
6. A wheel of mass  $M$  and radius  $R$  rolls on a level surface without slipping. If the angular velocity of the wheel is  $\omega$ , what is the linear momentum?  
 a.  $MR\omega R$     b.  $M\omega R$     c.  $M\omega R^2$     d.  $M\omega R^2/\omega$     e. Zero

# Physics C Multiple Choice 2004

**James R. Centorino**



## **Physics C Multiple Choice 2004:**

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theoretical and empirical bases for cognitive systems and to present exemplary developments in the field Following the workshop a great deal of planning went into the creation of this book Eleven of the twenty six presenters were asked to contribute chapters and four chapters are the product of the breakout sessions in which critical topics were discussed among the participants An introductory chapter provides the context for this compilation Cognitive Systems thus presents a unique merger of cognitive modeling and intelligent systems and attempts to overcome many of the problems inherent in current expert systems It will be of interest to researchers and students in the fields of cognitive science computational modeling intelligent systems artificial intelligence and human computer interaction      *Technology Enhanced Assessment* Silvester Draaijer, Desirée Joosten-ten Brinke, Eric Ras, 2019-07-12 This book constitutes the proceedings of the 21st International Conference on Technology Enhanced Assessment TEA 2018 held in Amsterdam The Netherlands in December 2018 The 14 papers presented were carefully selected from 34 submissions They are centered around topics like e learning computer assisted instruction interactive learning environments collaborative learning computing education student assessment

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and flagship research universities In keeping with Wieman s challenge our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual understanding in the natural sciences The content is structured as follows after an Introduction based on Constructivist Learning Theory Section I the practices we explore are Eliciting Ideas and Encouraging Reflection Section II Using Clickers to Engage Students Section III Supporting Peer Interaction through Small Group Activities Section IV Restructuring Curriculum and Instruction Section V Rethinking the Physical Environment Section VI Enhancing Understanding with Technology Section VII and Assessing Understanding Section VIII The book s final section IX is devoted to Professional Issues facing college and university faculty who choose to adopt active learning in their courses The common feature underlying all of the strategies described in this book is their emphasis on actively engaging students who seek to make sense of natural objects and events Many of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years In this view learners make sense of the world by forging connections between new ideas and those that are part of their existing knowledge base For most students that knowledge base is riddled with a host of na ve notions misconceptions and alternative conceptions they have acquired throughout their lives To a considerable extent the job of the teacher is to coax out these ideas to help students understand how their ideas differ from the scientifically accepted view to assist as students restructure and reconcile their newly acquired knowledge and to provide opportunities for students to evaluate what they have learned and apply it in novel circumstances Clearly this prescription demands far more than most college and university scientists have been prepared for

Generalization of Knowledge Marie T. Banich, Donna Caccamise, 2011-01-07 This volume takes a multidisciplinary perspective on generalization of knowledge from several fields associated with Cognitive Science including Cognitive Neuroscience Computer Science Education Linguistics Developmental Science and Speech Language and Hearing Sciences The aim is to derive general principles from triangulation across different disciplines and approaches

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