



GRADE 11 PHYSICAL SCIENCES NABCH TEST

QUESTION 1

Answer questions one to seven in the spaces provided in the following questions. Choose the correct answer and write ONLY the LETTER (A-D) next to the QUESTION NUMBER in the space provided on your test paper (Example 1.1.1).

- 1.1 The graph below shows the relationship between the net force and the acceleration for two masses A and B.



Which one of the following statements is true?

- 1.1.1 Which one of the following statements is true?
 - A) $m_A < m_B$
 - B) $m_A > m_B$
 - C) $m_A = m_B$
 - D) The mass of mass A is equal to the mass of mass B.
- 1.1.2 In each of the following cases, would the resultant force acting on the object be equal to 0N?
 - A) Three forces acting on an object at right angles.
 - B) A force of 10N acting to the right and a force of 10N acting to the left.
 - C) A force of 10N acting to the right and a force of 10N acting upwards.
 - D) A force of 10N acting to the right and a force of 10N acting downwards.
- 1.1.3 Which of the statements below best describes the resultant?
 - A) The resultant is the sum of all the forces acting on an object.
 - B) The resultant is the sum of all the forces acting on an object.
 - C) The resultant is the sum of all the forces acting on an object.
 - D) The resultant is the sum of all the forces acting on an object.
- 1.1.4 The vector of an object...
 - A) ...is the sum of all the forces acting on it.
 - B) ...is the sum of all the forces acting on it.
 - C) ...is the sum of all the forces acting on it.
 - D) ...is the sum of all the forces acting on it.
- 1.1.5 An object has a weight W , is suspended from a point by a string. The weight of the object is W and the tension in the string is T . The weight of the object is W and the tension in the string is T .

vector of the force?

- 1.1.6 Which of the following is the correct vector of the force?
 - A) $T - W$
 - B) $T + W$
 - C) $T - W$
 - D) $T + W$
- 1.1.7 Which of the following is the correct vector of the force?
 - A) $T - W$
 - B) $T + W$
 - C) $T - W$
 - D) $T + W$

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QUESTION 2

The grade 11 learners have had to find a way to determine the resultant of two vectors. They used the component method. They used the law of cosines to find the resultant of the two vectors as a check on the result that they had obtained using the component method. The learners obtained:

- 2.1 The resultant vector R is 10N at an angle of 45° to the horizontal.
- 2.2 The resultant vector R is 10N at an angle of 45° to the horizontal.



Which of the following is true?

- 2.2.1 The resultant vector R is 10N at an angle of 45° to the horizontal.
- 2.2.2 The resultant vector R is 10N at an angle of 45° to the horizontal.
- 2.2.3 The resultant of the two vectors is 10N.
- 2.2.4 The resultant of the two vectors is 10N.
- 2.2.5 The resultant of the two vectors is 10N.

10
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Physical Scienc Grade Common Paper For March2014 Scope

Rosina Ehmann



Physical Science Grade Common Paper For March 2014 Scope:

Teaching Children and Adolescents Physical Education George Graham, Eloise Elliott, Steve Palmer, 2016-06-03 It has never been more challenging to teach physical education to children and adolescents. Between managing difficult behavior and adapting lessons for students with diverse needs, teachers have their hands full. *Teaching Children and Adolescents Physical Education* has been helping both new and experienced physical educators meet these challenges for many years, and this revised edition has been updated to address many of the new challenges that have emerged in the past decade. Expanded to address teaching across elementary, middle, and high school, this classic resource demonstrates the techniques and skills master teachers rely on. Many of these skills are illustrated with videotapes of actual K-12 teachers in action. This already successful text goes beyond pedagogy to include concrete curriculum strategies for making classes vibrant, fun, and developmentally appropriate. Written in conversational language, the book is readily applicable. *Teaching Children and Adolescents Physical Education* has been refreshed to be more valuable than ever to veteran and future physical educators navigating the elementary, middle, and high school environment. New features include the following: New research and examples from the world of secondary physical education; Technology tips and app ideas contributed by real physical educators; Linked directly to national standards and grade-level outcomes; SHAPE America 2014; a new approach to planning and teaching lessons to meet the needs of all students; Many sample task sheets and assessment examples for middle and high school; In addition, this resource features three new chapters that add even more depth to the topics covered. The chapters address long-term planning, writing and teaching the lesson plan. The value of this book can be attributed to the authors' years of experience teaching physical education in elementary, middle, and high school. George Graham, Eloise Elliott, and Steve Palmer understand all aspects of quality physical education and the teaching challenges that come with the territory because they have been there. Emphasizing real-world strategies, the authors weave instructional scenarios throughout the book. Readers will see in action the decision-making process master teachers go through when writing and teaching lesson plans. Because every class is different, this resource also highlights how to plan for diverse students and how to adjust lessons accordingly. The text is packed with tried-and-true advice for motivating students to practice, building positive feelings, observing and analyzing, providing feedback, and assessing students through formative assessment. Examples show what effective physical education instruction really looks like in secondary gymnasiums and on playgrounds. Rich with firsthand advice and insight, this book will guide educators toward becoming master teachers of physical education. *Smart Energy Research. At the Crossroads of Engineering, Economics, and Computer Science* Christian Derksen, Christoph Weber, 2017-08-29 This volume consists of revised selected papers presented at the 3rd and 4th International Conference on Smart Energy Research (SmartER Europe 2016 and 2017) held in Essen, Germany, in February 2016 and 2017. The 13 full papers included in this volume were carefully reviewed and selected from 25 submissions. The

papers discuss recent advances and experiences in building and using new IT based solutions for Smart Grids and Smart Markets combining the knowledge of different disciplines such as engineering business management and economics as well as computer science They reflect the versatility and the complexity of the transformation process in the energy sector and also show the great need for research that is required to achieve the high targets for a digitized and sustainable energy landscape

Proceedings of the 5th International Asia Conference on Industrial Engineering and Management Innovation (IEMI2014) Ershi Qi,Qin Su,Jiang Shen,Feng Wu,Runliang Dou,2015-01-19 The 5th International Asia Conference on Industrial Engineering and Management Innovation is sponsored by the Chinese Industrial Engineering Institution and organized by Xi an Jiaotong University The conference aims to share and disseminate information on the most recent and relevant researches theories and practices in industrial and system engineering to promote their development and application in university and enterprises

Resources in Education ,1984 International Encyclopedia of Public Health William C Cockerham,2016-10-06 International Encyclopedia of Public Health Second Edition Seven Volume Set is an authoritative and comprehensive guide to the major issues challenges methods and approaches of global public health Taking a multidisciplinary approach this new edition combines complementary scientific fields of inquiry linking biomedical research with the social and life sciences to address the three major themes of public health research disease health processes and disciplines This book helps readers solve real world problems in global and local health through a multidisciplinary and comprehensive approach Covering all dimensions of the field from the details of specific diseases to the organization of social insurance agencies the articles included cover the fundamental research areas of health promotion economics and epidemiology as well as specific diseases such as cancer cardiovascular diseases diabetes and reproductive health Additional articles on the history of public health global issues research priorities and health and human rights make this work an indispensable resource for students health researchers and practitioners alike Provides the most comprehensive high level internationally focused reference work available on public health Presents an invaluable resource for both researchers familiar with the field and non experts requiring easy to find relevant global information and a greater understanding of the wider issues Contains interdisciplinary coverage across all aspects of public health Incorporates biomedical and health social science issues and perspectives Includes an international focus with contributions from global domain experts providing a complete picture of public health issues

Textbook of Critical Care E-Book Jean-Louis Vincent,Frederick A. Moore,Rinaldo Bellomo,John J. Marini,2022-12-21 Bridging the gap between medical and surgical specialties in critical care Textbook of Critical Care 8th Edition offers a practical multidisciplinary approach to the effective management of adult and pediatric patients in the ICU An outstanding editorial team led by world renowned intensivist Dr Jean Louis Vincent assisted by Dr Frederick A Moore and new editors Drs Rinaldo Bellomo and John J Marini provides the evidence based guidance you need to overcome a full range of practice challenges A full color art program relevant basic science and key summary points

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