



GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

SECTION A

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the **LETTER (A-D)** next to the **QUESTION NUMBER** in your answer book.

- 1.1 An example of a vector quantity:
- velocity
 - displacement
 - speed
 - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
 - applied force
 - gravity
 - normal force
- 1.3 Two forces F_1 and F_2 have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of F_1 and F_2 will be:
- 70N and 30N
 - 100N and 0N
 - 60N and 40N
 - 80N and 20N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
 - 7V
 - 20
 - 30
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
- 100
 - 4/50
 - 50
 - 60
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
 - frictional force is more than 200N
 - frictional force is less than 200N
 - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **B**?

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

June 2013 Physics Grade 11 Paper

Kenneth J. Luterbach



June 2013 Physics Grade 11 Paper:

Contributing Factors to TIMSS 2011 Eighth Graders' Science Achievement: A Comparison between Malaysia and Singapore

Lay Yoon Fah, Ng Khar Thoe, Suma Parahakaran, 2020-05-03 Trends in International Mathematics and Science Study TIMSS is one of the projects of the International Association for the Evaluation of Educational Achievement IEA located at Amsterdam The Netherlands and Hamburg Germany IEA is an independent cooperative of national educational research institutions and governmental research agencies dedicated to improving education TIMSS is conducted regularly for every four years to assess students achievement in science and mathematics at both the fourth and eighth grades The project is dedicated to providing participating countries with information to improve teaching and learning in science and mathematics This book is written especially for the interest of undergraduate students postgraduate students and educators of science education who wish to know more about the contributing factors to Grade 8 students science achievement in TIMSS This book is also resourceful for individuals who are involved directly or indirectly in the administration and implementation of TIMSS at the national state district and school levels This book consists of seven chapters The first chapter gives a brief introduction to TIMSS which includes the TIMSS curriculum model and TIMSS science assessment frameworks The subsequent chapters compare the contribution of various factors i e home environment support school resources school climate teacher preparation and classroom instructions on Malaysian and Singaporean Grade 8 students science achievement in TIMSS 2011 Last but not least recommendations on ways to improve Malaysian Grade 8 students science achievement in the forthcoming TIMSS are suggested based on the experiences of the Singaporean education system **Canadian Journal of Physics**, 2014 **Safety and Reliability of Complex Engineered Systems**

Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas **Creating Stellar**

Lessons with Digital Tools Kenneth J. Luterbach, 2022-05-12 Creating Stellar Lessons with Digital Tools prepares teachers in training and in service teachers to use technologies for design and development activities with middle and high school students While software open resources handheld devices and other tools hold great potential to enhance learning experiences teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers Featuring concrete applications in social studies English mathematics and science scenarios this book provides pre service and in service teachers with seven paths to creatively integrate and innovate with computational thinking datasets maker spaces visual design media editing and other approaches Rare Earth Frontiers

Julie M. Klinger, 2018-01-15 *Rare Earth Frontiers* is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation

Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 **FOOD PROCESSING** Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

Scientific American ,1888 Monthly magazine devoted to topics of general scientific interest
Australian Education Index ,1980 **Science Abstracts** ,1992 **Society of Plastics Engineers Annual Technical Conference** Society of Plastics Engineers,1978 *Book Review Index* ,2006 Every 3rd issue is a quarterly cumulation **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2010 **International Aerospace Abstracts** ,1975 **Nuclear Science Abstracts** ,1964 *Nuclear News* ,2007 *Journal of Developmental Education* ,2015 *The Oxford Universal Dictionary on Historical Principles* William Little, Henry Watson Fowler, James Augustus Henry Murray, Jessie Coulson, 1955 **Who's who in America** ,1960 **Who's who in American Education** ,1992 Comprehensive Dissertation Index ,1984

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