



## 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:
- 6V
  - 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 **X**?

	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

# Physical Science Memorandum March 2015 Grade 11

**Jiyuan Zhang**



## **Physical Science Memorandum March 2015 Grade 11:**

*Maize* Sukhvinder Singh Purewal, Pinderpal Kaur, Sneha Punia Bangar, Kawaljit Singh Sandhu, Surender Kumar Singh, Maninder Kaur, 2022-09-30 Maize is widely cultivated throughout the world due to its high yield potential. The economic and nutritional value of maize grains is associated with its starch content, protein, fibre, bioactive compounds, and minerals. Maize is used worldwide in the preparation of health-benefiting, antioxidant-rich, fortified products and dietary supplements. *Maize: Nutritional Composition, Processing, and Industrial Uses* explores the status of maize in terms of its production, nutritional composition, biofortification, processing methods, health benefits, maize-based products, and storage. This book also emphasizes the key features of maize grains which make it an ideal crop for industrial use. It covers all aspects of recent research about the maize and provides updated information. *Features:* Discusses information related to the chemistry of maize components. Highlights comprehensive information on the physical and milling properties of maize. Explains the structure, functional, and antioxidant properties of maize flour. Provides the latest scientific development in the modification of maize starch. Explores various maize-based food products and their storage. Examines maize protein scenarios and quality improvement through biofortification. In-depth information is provided regarding various health-benefiting nutrient components of maize flour, offering meaningful information for product formulation. This book unfolds the potential of maize grains for industrial use.

*Handbook of Accessible Instruction and Testing Practices* Stephen N. Elliott, Ryan J. Kettler, Peter A. Beddow, Alexander Kurz, 2018-03-08 The Second Edition of this handbook provides comprehensive coverage of the concept of accessibility and its application to the design and implementation of instruction and tests with all students. It updates and expands on its original contents and responds to the increasing demand for research-based evidence of accessible instruction and testing practices from the professional community. Chapters explore how outcomes are affected when essential features or components of instructional materials and tests are not accessible to any portion of the student population. The handbook addresses the new set of Standards for Educational and Psychological Testing that was published in 2014, as well as requirements for a high level of access for all interim and summative tests by national testing consortiums. In addition, the handbook describes how the Center for Applied Special Technology (CAST) has continued to advance Universal Design for Learning (UDL) principles in mainstream education with teachers of all types of students, not just students with disabilities. Topics featured in this text include: A summary of U.S. policies that support inclusive assessment for students with disabilities. An overview of international policies that support inclusive assessments. Designing, developing, and implementing an accessible computer-based national assessment system. Universal Design for Learning (UDL) principles and the future of assessment. Recent advancements in the accessibility of digitally delivered educational assessments. *The Handbook of Accessible Instruction and Testing Practices, Second Edition* is an essential reference for researchers, practitioners, and graduate students in education and allied disciplines, including child and school psychology, assessment, testing, and

evaluation social work and education policy and politics      *The Effect of Radiation on Properties of Polymers* Laurence W. McKeen, 2020-08-20 The Effect of Radiation on Properties of Polymers examines the effects of radiation on plastics and elastomers Polymers are required in products or parts for a range of cutting edge applications that are exposed to radiation in areas such as space medicine and radiation processing This book focuses on the effects of radiation exposure within that environment providing in depth data coverage organized by category of polymer Aspects such as radiation impact on mechanical and thermal properties including glass transition and heat deflection temperatures are described demonstrating how changes in these properties affect the performance of plastic or elastomer parts The effect of radiation on electrical properties is also included Supporting introductory chapters explain the key concepts of radiation including the physical mechanical and thermal properties of plastics and elastomers This is a vital resource for plastics engineers product designers and R D professionals working on products or parts for radioactive environments as well as engineers and scientists in the medical nuclear and radiation processing industries The book also supports researchers and scientists in plastics engineering polymer processing and properties polymer and coatings chemistry materials science and radiation Brings together highly valuable data on the effect of radiation on the properties of polymers and elastomers Enables the reader to compare properties and to select the best possible materials for specific applications Supported by detailed explanations and analysis ensuring that the reader understands how to interpret and utilize the data      Physical Science Gr. 11 J. M. Lucas, D. Wright, 2007\*      Physical Science ,      **Physical Science for Gr. 11** J. M. Lucas, 2007      *Physical Sciences* , 1968

**Physical Science** National Geographic Society (U.S.), Glencoe/McGraw-Hill, 2002\*      An Approach to Physical Science Physical Science for Non-Science Students Project, 1966      **Glencoe Science** , 2007      **Study Guide to Physical Science** Leon Horn, Benjamin du Preez Brink, Ronald Colin Jones, 1989      Physical Science Edunetics Staff,      *Introduction to Physical Science* , 1894      Holt Physical Science Mapi M. Cuevas, Lamb, 1994      *Merrill Physical Science* Richard G. Smith, 1993      Modern physical science Charles A. Payne, William R. Falls, 1978      *Physical Sciences* Santie Du Plessis, 2015

*Teachers Resource Book for Text and Supplementary Chapters [of] An Approach to Physical Science* Physical Science for Nonscience Students Project, 1970      *Physical Science* Arthur Godman, 1972-01-01      **Physical Science, Study Guide** Merrill, 1992-06

## **Physical Science Memorandum March 2015 Grade 11** Book Review: Unveiling the Power of Words

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