



## 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 **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

# Physical Science Memorandum March 2015 Grade 11

**N Colangelo**



## **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 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.

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