



GRADE 10 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 Which of the following is an example of a vector?

- A. time
- B. speed
- C. pressure
- D. mass

1.2 What can be determined by calculating the gradient of a position vs time graph?

- A. acceleration
- B. displacement
- C. velocity
- D. none of the above

Use the circuit diagram below to answer QUESTIONS 1.3 and 1.4



1.3 The voltage over the parallel resistors will be:

- A. 8V
- B. 7V
- C. 2V
- D. 3V

1.4 The current in ONE parallel branch if the resistor offered a resistance of 10.0Ω

- A. 1A
- B. 4A
- C. 1.5A
- D. 3A

1.5 The equivalent unit for watt is:

- A. joule per coulomb
- B. joule per second
- C. joule per ampere
- D. coulomb per second

1.6 Two waves moving in opposite directions collide with constructive interference. Wave A has an amplitude of 2 units and Wave B has an amplitude of 0.5 units. The combined wave has an amplitude of:

- A. 1.5 units
- B. 2 units
- C. 2.5 units
- D. 0.5 units

1.7 A ball with a mass of 2kg is released from a height of 20m and takes 1.2s to reach the ground. If the mass of the ball is increased to 8kg the time it takes to reach the ground will:

- A. increase
- B. decrease
- C. remain the same

1.8 A glass rod and a cloth are rubbed against each other. The glass rod becomes positively charged. Which statement best describes the reason for this?

- A. The glass rod gained protons from the cloth.
- B. The cloth gained electrons from the glass rod.
- C. The glass rod lost protons to the cloth.
- D. The cloth lost electrons to the glass rod.

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Inquiry-Based Science in the Primary Classroom Garima Bansal,Umesh Ramnarain,2023-06-20 The chapters in this book represent a cross section of research conducted in inquiry based science education at primary levels of schooling in international contexts that include school settings in Australia India Singapore South Africa Turkey Northern Ireland and the United States The book includes empirical studies on the role of inquiry based learning in advancing students conceptual understanding and modelling proficiency students understandings about the nature of scientific inquiry classroom studies on teachers enactment of inquiry based learning teachers facilitation of classroom discourse for inquiry based learning and co teaching in developing teachers in adopting an inquiry based pedagogy It was originally published as a special issue of the journal Education 3 13

Families and Social Change in the Gulf Region Jennifer E. Lansford,Anis Ben Brik,Abdallah M. Badahdah,2020-09-14 This timely volume explores the impact of dramatic social change that has disrupted established patterns of family life and human development in the countries of the Gulf Cooperation Council It addresses several major deficits in knowledge regarding family issues in the Gulf countries bringing a critical perspective to the emerging challenges facing families in this region Lansford Ben Brik and Badahdah examine the role of urbanization educational progress emigration globalization and changes in the status of women on social change as well as tackling issues related to marriage fertility and parenthood and family well being This book explores how family relationships and social policies can promote physical health psychological well being social relationships safety cognitive development and economic security in the Gulf countries placing a unique emphasis on contemporary families in this region Families and Social Change in the Gulf Region is essential reading for scholars from psychology sociology education law and public policy It will also be of interest to graduate students in these disciplines

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Beginning Physical Science Michael Anthony Atherton,Patrick Namasaka,Don Sloan,1976 Introductory physical science ,1967 *Introductory Physical Science* Pearson Education Canada,Prentice Hall Regents,1967-11-30 *Physical Science* Edunetics Staff, Physical Science Denise Eby,Robert B. Horton,Macmillan Publishing Company,1988 An Introduction to Physical Science ,2009-01-01 *Harcourt Science, Grade 1* Harcourt School Publishers Staff,2002-01-01

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