



**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 0.5Ω

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

1.5 The equivalent unit for work 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 4kg 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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Dimensions ,1971 *Technical News Bulletin of the National Bureau of Standards* ,1970 **Annual Report of the Board of Regents of the Smithsonian Institution** United States National Museum,1920 **Report of the United States National Museum ...** United States National Museum,1920 **Report on the Progress and Condition of the U.S. National Museum for the Year Ending June 30 ...** United States National Museum,1920 *Technical News Bulletin* ,1971 **Record of Current Educational Publications** United States. Office of Education,1921 **Dancing with the Kobzar** Perry Bush,2000 Combining an engaging style with scholarly support including extensive notes plus bibliography and index Perry Bush delicately balances critical assessment and affirmation of the Bluffton College s legacy of progressive Anabaptism and its place within Anabaptism **Record of Current Educational Publications** ,1921 **Report of the Assistant Director and of the Curators of the U.S. National Museum** United States National Museum,1920 **Technical News Bulletin** United States. National Bureau of Standards,1971 *Studies in Anabaptist and Mennonite History* ,2000 **Annual Report** Smithsonian Institution,1920 **Monthly Record of Current Educational Publications** ,1918 **Report on the Progress and Condition of the United States National Museum** United States National Museum,1920 Salaries of Administrative Officers and Their Assistants in School Systems of Cities of 25,000 Inhabitants Or More Florence Cornelia Fox,John Charles Gebhart,Music Teachers National Association,National Committee on Mathematical Requirements,Percival Hall,Rollo La Verne Lyman,Sophia Christena Gleim,Walter Sylvanus Deffenbaugh,Wortley Fuller Rudd,Philip Frederic Fackenthal,1921 *Bulletin* United States. Office of Education,1921 **Research in Progress** ,1962 Federal Register ,2013-12 *The Electrical Journal* ,1914

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