



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 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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Daniel F McAuley



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$$\text{BaSO}_4 \text{ s} + \text{Ba}^{2+} \text{ aq} + \text{SO}_4^{2-} \text{ aq} \rightleftharpoons \text{Ba}^{2+} \text{ aq} + \text{SO}_4^{2-} \text{ aq}$$

$$\text{Al}^{3+} \text{ aq} + \text{OH}^{-} \text{ aq} \rightleftharpoons \text{Al}(\text{OH})_3 \text{ s}$$

$$\text{Pb}^{2+} \text{ aq} + \text{Cl}^{-} \text{ aq} \rightleftharpoons \text{PbCl}_2 \text{ s}$$

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web students review precipitation reactions and use the virtual lab to find out which chemicals react to form a precipitate using stoichiometry to connect mass to concentration students determine if the water is safe to drink based on epa guidelines