



## 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 6Ω:

- 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 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.

# Grade Physics November Paper 1

**Arthur Coleman Monahan, Carl Gustav  
Rathmann, Frank Addison  
Manny, Harold Waldstein Foght, Joseph  
Clifton Brown, Sara Louisa Oberholtzer**

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professor drones on or they meet with a teaching assistant for an hour of aimless discussion The modern university does not reward teaching so faculty members at every level neglect it in favor of research and publication In the first book length history of American college teaching Jonathan Zimmerman confirms but also contradicts these perennial complaints Drawing upon a wide range of previously unexamined sources The Amateur Hour shows how generations of undergraduates indicted the weak instruction they received But Zimmerman also chronicles institutional efforts to improve it especially by making teaching more personal As higher education grew into a gigantic industry he writes American colleges and universities introduced small group activities and other reforms designed to counter the anonymity of mass instruction They also experimented with new technologies like television and computers which promised to personalize teaching by tailoring it to the individual interests and abilities of each student But Zimmerman reveals the emphasis on the personal inhibited the professionalization of college teaching which remains ultimately an amateur enterprise The more that Americans treated teaching as a highly personal endeavor dependent on the idiosyncrasies of the instructor the less they could develop shared standards for it Nor have they rigorously documented college instruction a highly public activity which has taken place mostly in private Pushing open the classroom door The Amateur Hour illuminates American college teaching and frames a fresh case for restoring intimate learning communities especially for America s least privileged students Anyone who wants to change college teaching will have to start here

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