



## GRADE 10 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION NUMBER (1-15) on your blue paper. Example: 1.6. D

- 1.1. A positively charged object has:
- Excess electrons
  - Excess protons
  - Excess neutrons
  - Excess electrons and protons
- 1.2. Which one of the following types of electromagnetic waves has the LONGEST wavelength?
- Gamma rays
  - X-rays
  - Radio waves
  - Ultraviolet rays
- 1.3. In which ONE of the following do sound waves travel the FASTEST?
- Vacuum
  - Water
  - Air
  - Steel
- 1.4. The SI unit for charge is the ...
- Coulomb
  - Ampere
  - Volt
  - Ohm
- 1.5. The relationship between voltage and work done is:
- Inversely proportional
  - Directly proportional
  - Inversely proportional squared
  - Directly proportional squared

(10)

### QUESTION 2

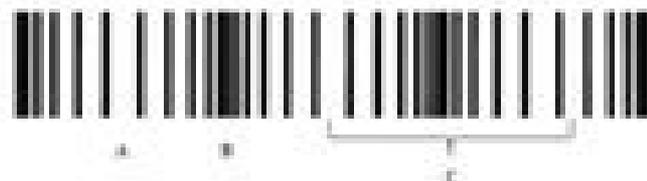
Below is a representation of two waves consisting of continuous pulses. Study carefully and answer the questions that follow.



- 2.1. Define a pulse. (2)
- 2.2. Identify the type of waves illustrated above as **Transverse** or **Longitudinal**. (2)
- 2.3. Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4. For wave Q:
- What is the magnitude of its wavelength in metres? (1)
  - What is the wavelength of the pulse? (1)
  - What is the amplitude? (2)
- 2.5. If the waves were sent towards each other and allowed to collide:
- What would be the resultant wave? (2)
  - What would be the resultant wavelength? (2)
- (14)

### QUESTION 3

- 3.1. The diagram below shows different parts on a longitudinal wave.



- 3.1.1. What is the name of part 'c'? (2)

(2)

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**CO Houle**



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*School Science and Mathematics* ,1921      **The Chemical News and Journal of Physical Science** ,1898      **Chemical News and Journal of Physical Science** ,1883      **Research in Education** ,1970-12      *Chemical News and Journal of Physical Science* William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1905      **Resources in Education** ,1994-04      *The College Board Review* ,1962      *THE CHEMICAL NEWS AND JOURNAL OF PHYSICAL SCIENCE.* WILLIAM CROOKES, F. R. S., &c.,1880      Phi Delta Kappan ,1923      *Educational Research Bulletin* ,1924      **Federal Times** ,1971      **Child Welfare in War Time ...** Russell Sage Foundation. Library,1918      Supreme Court ,      **Journal of Geoscience Education** ,2007      Report Russell Sage Foundation. Library,1917      *The March of Science* British Association for the Advancement of Science,1968      **The College Handbook, 1997** College Board,College Board Staff,1996 Updated annually to guarantee the most up to date information possible The College Handbook tells students what they need to know about admission policies application deadlines required tests acceptance rates majors enrollment faculty sports fees campus life and more and provides names addresses and phone and fax numbers for the directors of admissions      **New Teaching, New Learning** American Association for Higher Education,1971      Bulletin of the Russell Sage Foundation Library Russell Sage Foundation. Library,1921      The National School Digest ,1921

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