



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 (q1 1-15) on your Data paper. Example: 1.6. D

- 1.1 A positively charged object has:
 - A. a negative electric field
 - B. an electric field of positive
 - C. an electric field of negative
 - D. an electric field of positive
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
 - A. Ultraviolet
 - B. Gamma
 - C. Microwave
 - D. X-ray
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
 - A. Vacuum
 - B. Water
 - C. Air
 - D. Steel
- 1.4 The SI unit for charge is the ...
 - A. Coulomb
 - B. Volt
 - C. Ampere
 - D. Joule
- 1.5 The relationship between voltage and work done is:
 - A. Inverse
 - B. Directly proportional
 - C. Inversely proportional
 - D. Indirectly proportional

[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**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For wave Q:
 - 2.4.1 What is the magnitude of its wavelength in metres? (1)
 - 2.4.2 What is the frequency of the pulse? (1)
 - 2.4.3 Calculate the wave speed. (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
 - 2.5.1 What happens to wave P's amplitude? (2)
 - 2.5.2 What happens to wave Q's amplitude? (2)

[14]

QUESTION 3

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



- 3.1.1 What is the name of the part labeled E? (2)

(2)

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Michael Brown



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Handbook of Automated Scoring Duanli Yan, André A. Rupp, Peter W. Foltz, 2020-02-26
Automated scoring engines require a careful balancing of the contributions of technology NLP psychometrics artificial intelligence and the learning sciences The present handbook is evidence that the theories methodologies and underlying technology that surround automated scoring have reached maturity and that there is a growing acceptance of these technologies among experts and the public From the Foreword by Alina von Davier ACTNext Senior Vice President Handbook of Automated Scoring Theory into Practice provides a scientifically grounded overview of the key research efforts required to move automated scoring systems into operational practice It examines the field of automated scoring from the viewpoint of related scientific fields serving as its foundation the latest developments of computational methodologies utilized in automated scoring and several large scale real world applications of automated scoring for complex learning and assessment systems The book is organized into three parts that cover 1 theoretical foundations 2 operational methodologies and 3 practical illustrations each with a commentary In addition the handbook includes an introduction and synthesis chapter as well as a cross chapter glossary **The Psychology and Education of Entrepreneurial Development** Hsiu-Ping

Yueh, Yenchun Jim Wu, Wei-Fan Chen, 2020-02-25 **Interest in Mathematics and Science Learning** Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education *Resources in Education* ,1990

The Breeder's Gazette ,1891 *Children's Books in Print* R R Bowker Publishing, Bowker, 1999-12 NEA Journal
National Education Association of the United States, 1950 **Journal of the National Education Association** ,1950

The Routledge Handbook of Religion, Politics and Ideology Jeffrey Haynes, 2021-08-14 This comprehensive handbook examines relationships between religion politics and ideology with a focus on several world religions Christianity Islam Buddhism Hinduism and Judaism in a variety of contexts regions and countries Relationships between religion politics and ideology help mould people s attitudes about the way that political systems both domestically and internationally are organised and operate While conceptually separate religion politics and ideology often become intertwined and as a result their relationships evolve over time This volume brings together a number of expert contributors who explore a wide range of topical and controversial issues including gender nationalism communism fascism populism and Islamism Such topics inform

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