

GRADE 10 PHYSICAL SCIENCES MARCH TEST

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 (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
 - A. an attraction to electrons.
 - B. a repulsion of electrons.
 - C. an attraction of protons.
 - D. a repulsion of protons.
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
 - A. Radio waves
 - B. X-rays
 - C. Microwaves
 - D. Visible light
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
 - A. Gases
 - B. Liquids
 - C. Solids
 - D. Vacuum
- 1.4 The SI unit for charge is the ...
 - A. Coulomb
 - B. Volt
 - C. Ohm
 - D. Ampere
- 1.5 The relationship between voltage and work done is:
 - A. Current
 - B. Directly proportional
 - C. Inversely proportional
 - D. Indirectly proportional

[10]

QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study it 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**. (3)
- 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 Write the frequency of the wave. (1)
 - 2.4.3 Calculate the speed of the wave. (3)
- 2.5 If the waves were sent towards each other and allowed to collide.
 - 2.5.1 Write down the amplitude of the wave. (2)
 - 2.5.2 Describe the wave after collision. (2)

[10]

QUESTION 3

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



- 3.1.1 Point to which A, B and C

(2)

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Hellum, Anne, Kameri-Mbote, Patricia



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Rural Education Across the World Simone White, Jayne Downey, 2021-03-22 This book brings together authors from United States South Africa United Kingdom China Canada and Australia to provide insights and case studies from across a range of contexts to explore the interplay between the notions of rurality innovation and education The book reveals a hopeful and resilient approach to innovative rural education and scholarship collectively and provides important evidence to speak against an often deficit view of rural education Three patterns are revealed namely the importance of place attentive strategies the importance of joined up alliances to maximise resources and networks and finally the need to utilize alternative methodologies and frameworks that have a starting point of difference rather than deficit for any rural initiative or approach By drawing from international examples and responding in innovative ways to rural education challenges this book provides an opportunity to share international insights into innovations interventions and partnerships that promote and support rural education in its broadest sense

Water is Life Hellum, Anne, Kameri-Mbote, Patricia, 2015-10-19 This book approached water and sanitation as an African gender and human rights issue Empirical case studies from Kenya Malawi South Africa and Zimbabwe show how coexisting international national and local regulations of water and sanitation respond to the ways in which different groups of rural and urban women gain access to water for personal domestic and livelihood purposes The authors who are lawyers sociologists political scientists and anthropologists explore how women cope in contexts where they lack secure rights and participation in water governance institutions formal and informal The research shows how women as producers of family food rely on water from multiple sources that are governed by community based norms and institutions which recognise the right to water for livelihood How these common pool water resources due to protection gaps in both international and national law are threatened by large scale development and commercialisation initiatives facilitated through national permit systems is a key concern The studies demonstrate that existing water governance structures lack mechanisms which make them accountable to poor and vulnerable water users on the ground most importantly women The findings thus underscore the need to intensify measures to hold states accountable not just in water services provision but in assuring the basic human right to clean drinking water and sanitation and also to protect water for livelihoods

Routledge Handbook of Food Waste Christian Reynolds, Tammara Soma, Charlotte Spring, Jordon Lazell, 2020-01-13 This comprehensive handbook represents a definitive state of the current art and science of food waste from multiple perspectives The issue of food waste has emerged in recent years as a major global problem Recent research has enabled greater understanding and measurement of loss and waste throughout food supply chains shedding light on contributing factors and practical solutions This book includes perspectives and disciplines ranging from agriculture food science industrial ecology history economics consumer behaviour geography theology planning sociology and environmental policy among others The Routledge Handbook of Food Waste addresses new and ongoing debates around systemic causes and

solutions including behaviour change social innovation new technologies spirituality redistribution animal feed and activism The chapters describe and evaluate country case studies waste management treatment prevention and reduction approaches and compares research methodologies for better understanding food wastage This book is essential reading for the growing number of food waste scholars practitioners and policy makers interested in researching theorising debating and solving the multifaceted phenomenon of food waste

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