

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 Positive charge
- B A negative charge
- C An electric field
- D An electric current

1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?

- A Gamma
- B X-ray
- C Microwaves
- D Radio

1.3 In which ONE of the following do sound waves travel the FASTEST?

- A Air
- B Water
- C Glass
- D Vacuum

1.4 The SI unit for charge is the ...

- A Coulombs
- B Joules
- C Watts
- D Amperes

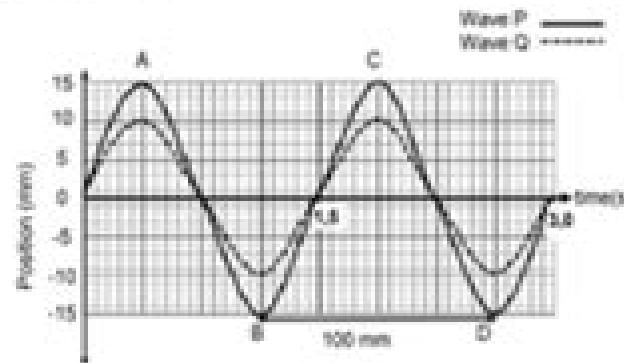
1.5 The relationship between voltage and work done is:

- A Constant
- B Directly proportional
- C Inversely proportional
- D Directly proportional to the square of the voltage

[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. (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 wave? (1)
- 2.4.3 Calculate the speed of the wave. (2)

2.5 If the waves were sent towards each other and allowed to collide:

- 2.5.1 State what would happen. (2)
- 2.5.2 Calculate the resultant amplitude. (2)

QUESTION 3

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



3.1.1 Calculate the wavelength. (2)

(3)

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Paul Allin,David J. Hand

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Emerging Practices for Online Language Assessment, Exams, Evaluation, and Feedback Gokturk-Saglam, Asli Lidice, Sevgi-Sole, Ece, 2023-06-29 The advancement of digital tools has enabled the development of online language assessments exams evaluations and feedback Nonetheless the language assessment literacy required of a teacher today is of a completely different kind one that is adapted to the digital environment and altered for the pedagogical approaches of our new norm There is a scarcity of literature addressing the challenges of in person to online assessments exams evaluations and feedback particularly in the time of the COVID 19 education crisis Emerging Practices for Online Language Assessment Exams Evaluation and Feedback investigates the main challenges of online language assessment when migrating from an in class to an online environment due to academic integrity adaptation to the new testing environment technical problems and anxiety Covering key topics such as parental involvement self assessment and language learners this premier reference source is ideal for administrators policymakers industry professionals researchers academicians scholars practitioners instructors and students

[Agricultural sensors and systems for field detection](#) Ning Yang, Jianfeng Ping, Jun Steed Huang, 2023-11-06 *100 technical questions and answers for job interview Offshore Drilling Rigs* Petrogav International Oil & Gas Training Center, 2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

[The Wellbeing of Nations](#) Paul Allin, David J. Hand, 2014-10-06 What is national wellbeing and what is progress Why measure these definitions Why are measures beyond economic performance needed and how will they be used How do we measure national wellbeing turn the definitions into observable quantities Where are we now and where to next These questions are asked and answered in this much needed timely book The Wellbeing of Nations provides an accessible and comprehensive overview of the measurement of national well being examining whether national wellbeing is more than the sum of the wellbeing of everyone in the country and identifying and reviewing requirements for new measures It begins with definitions describes how to operationalize those definitions and takes a critical look at the uses to which such measures are to be put The authors examine initiatives from around the world using the UK measuring national wellbeing programme as a case study throughout the book along with case studies drawn from other countries as well as discussion of the position in some countries not yet drawn into the national wellbeing scene

Adapting to Climate Change Matthew E. Kahn, 2021-03-30 A revelatory study of how climate change will affect individual economic decisions and

the broad impact of those choices Selected by Publishers Weekly as one of its Top Ten books in Business and Economics for Spring 2021 It is all but certain that the next century will be hotter than any we've experienced before Even if we get serious about fighting climate change it's clear that we will need to adapt to the changes already underway in our environment This book considers how individual economic choices in response to climate change will transform the larger economy Using the tools of microeconomics Matthew E Kahn explores how decisions about where we live how our food is grown and where new business ventures choose to locate are impacted by climate change Kahn suggests new ways that big data can be deployed to ease energy or water shortages to aid agricultural operations and proposes informed policy changes related to public infrastructure disaster relief and real estate to nudge land use transportation options and business development in the right direction

[Yearbook of International Organizations 2014-2015 \(Volume 4\)](#) Union Of International Associations,Union of International Associations,2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations

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