

GRADE 10 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

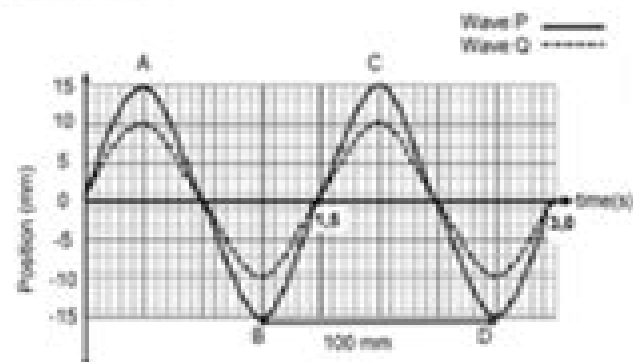
Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.5) on your folio paper. Example 1.6. D.

- 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.

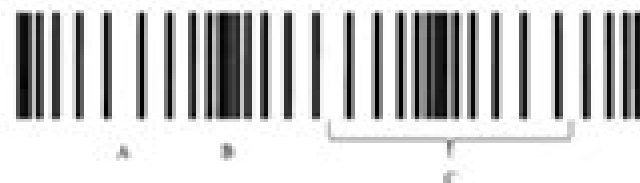


- 2.1 Define a **pulse**. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (1)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For Wave Q:
 - 2.4.1 What is the magnitude of its wavelength in metres? (1)
 - 2.4.2 Write down the 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 pattern that would be formed. (2)

[14]

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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L Darling-Hammond



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web rtca do 160g section 5 0 temperature variation testing category b this category is for equipment in a non temperature controlled or partially temperature controlled internal section of the aircraft the temperature variation testing is a

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web rtca do 160 section 5 temperature variation testing rtca do 160 section 5 determines performance characteristics of the equipment during temperature variations between high and low operating temperature extremes note the test is not intended to verify the behavior of the equipment in wet or icing conditions

section 22 lightning induced transient susceptibility do 160 - Dec 27 2021

web category designation for equipment shall consist of six characters pin test waveform set letter a or b as designated in table 22 1 1 or z or x pin test level 1 to 5 as designated in table 22 2 or z or x cable bundle single and multiple stroke test waveform set letter c through k as designated in table 22 1 2 or z or x

ac 21 16g rtca document do 160 versions d e and f - Jul 14 2023

web jun 22 2011 the faa strongly encourages the use of rtca do 160g for new articles b appendix 1 of this ac provides a summary of the changes from rtca do 160c to rtca do 160d version d to e version e to f and f to g the information in the table will assist you in determining if a particular version of rtca do 160 is acceptable content

section 5 0 temperature variation do 160 - Dec 07 2022

web temperature variation rtca do 160 section 5 0 temperature variation this test determines performance characteristics of the equipment during temperature variations between high and low operating temperature extremes note the test is not intended to verify the behavior of the equipment in wet or icing conditions

advisory u s department circular federal aviation administration - Feb 09 2023

web the tests in rtca do 160 provide a laboratory means of demonstrating the performance characteristics of airborne equipment in environmental conditions that may be encountered in operation of the equipment in aircraft it is not the intent of rtca do 160 to be used as a measure of service life of the airborne equipment subjected to these tests

rtca do 160e section 4 another requirement for a reliable temperature - May 12 2023

web apr 9 2020 while iec6008 2 provides guidance for environmental tests of electronic and electro mechanical equipment rtca do 160e section 4 provides standard temperature test conditions and applicable test procedures for airborne equipment environmental test chamber temperature test chamber

section 4 0 temperature and altitude do 160 - Aug 15 2023

web rtca do 160 section 4 0 temperature and altitude the temperature and altitude tests determine the performance

characteristics of equipment at the applicable categories for the temperatures and altitudes specified in table 4 1 and at the pressures defined in table 4 2 the following categories cover the wide range of environments known

european aviation safety agency easa - Mar 10 2023

web b eurocae ed14e rtca do 160e section 5 temperature variation combine this test with eurocae ed14e rtca do 160e section 4 testing requirements c eurocae ed14e rtca do 160e section 6 humidity d eurocae ed14e rtca do 160e section 7 operational shocks and crash safety after this test the equipment