

Name: _____

Unit Test – SPH3U Grade 11 Physics – Waves and Sound

There are 4 parts to this test. Answer all questions. Read each question carefully and answer exactly what the question asks. You will have the entire 35 minute class to finish the test if you need it. Once you are finished, raise your hand and I will come around and take your test and read quietly. If you are not sure of an answer move on to the next question and come back to that one later. (Total test of 64 marks).

Part 1: Multiple Choice (20 marks)

Circle the letter corresponding to the most correct answer.

- Which best describes sound waves?
 - Transfer of energy from one place to another
 - Transfer of mass from one place to another
 - Positive displacement of particles
 - Movement in a direction perpendicular to the direction of the wave
- Which statement is false, as suggested by the universal wave equation, $v = f\lambda$?
 - If the frequency is held constant, the speed increases as the wavelength increases.
 - Speed is the product of the frequency and the wavelength
 - If the wavelength is held constant, the speed increases as the frequency decreases.
 - If the speed is held constant, wavelength increases as the frequency decreases.
- Which of the following actions will increase the speed of sound in air?
 - Decreasing the air temperature
 - Increasing the frequency of the sound
 - Increasing the air temperature
 - Increasing the amplitude of the sound wave.
- A pipe open at both ends resonates at a fundamental frequency, f_{open} . When one end is covered and the pipe is again made to resonate, the fundamental frequency is f_{closed} . Which of the following expressions describes how these two resonant frequencies compare?
 - $f_{closed} = f_{open}$
 - $f_{closed} = \frac{2}{3} f_{open}$
 - $f_{closed} = 2 f_{open}$
 - $f_{closed} = \frac{3}{2} f_{open}$
- Which phrase best describes damping of a wave? *d*
 - Decreased velocity
 - Constructive interference
 - Decreased frequency
 - Decreased amplitude

Exam Questions And Answers On Physics Pgrade 11

**Kerst Boersma, Martin Goedhart, Onno
de Jong, Harrie Eijkelhof**



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Cities Applications Volume 4 Mohamed Ben Ahmed,İsmail Rakıp Karas,Domingos Santos,Olga Sergeyeva,Anouar Abdelhakim Boudhir,2021-02-12 This proceedings book is the fourth edition of a series of works which features emergent research trends and recent innovations related to smart city presented at the 5th International Conference on Smart City Applications SCA20 held in Safranbolu Turkey This book is composed of peer reviewed chapters written by leading international scholars in the field of smart cities from around the world This book covers all the smart city topics including Smart Citizenship Smart Education Smart Mobility Smart Healthcare Smart Mobility Smart Security Smart Earth Environment Agriculture Smart Economy Smart Factory and Smart Recognition Systems This book contains a special section intended for Covid 19 pandemic researches This book edition is an invaluable resource for courses in computer science electrical engineering and urban sciences for sustainable development

Elasticity and Toughness Feng Wei,2021-12-30 This book examines minban teacher policies and their implementation in China between 1949 and 2000 when rural areas were in severe shortage of qualified teachers During this period of time minban teachers made great contributions to education doing the same work as state employed school teachers while receiving much lower salaries due to non official status With solid fieldwork on oral history of minban teachers and policy actors and deep examination of a wealth of policy documents in private and governmental archives the author records the life history of minban teachers the process of minban teacher policies and the interaction between policies and individual strategies in M county pseudonym located in northern Jiangsu province of China The book reveals many interesting and sometimes surprising findings about the characteristics of educational policy implementation in China While China s minban teacher policies have come to an end rural education continues to be a major concern of policymakers and researchers alike The book is an important piece of scholarship for the readers interested in rural education in China and in how state society and culture interact to influence teacher policies and management in the Chinese context

Who's the New Kid in Chemistry? John D. Butler,2013-12-12 Who s the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters s high school chemistry class documenting his experiences as they unfold Who s the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year

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