GRADE 10 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

SECTION A
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 in your answer book.

1.1 Which of the following is an example of a vector?

A force

B speed

C pressure

D mass

1.2 What can be determined by calculating the gradient of a position vs time graph?

A acceleration

B displacement

C velocity

D none of the above

Use the circuit diagram below to answer QUESTIONS 1.3 and 1.4

1.3 The voltage over the parallel resistors will be:

A 5V

B 7V

C 2V

D 3V

1.4 The current of ONE parallel branch if the resistor offered a resistance of 0.5Ω:

A 7A

B 6A

C 1.5A

D 3A

1.5 The equivalent unit for watt is:

A joule per coulomb

B joule per second

C joule per ampere

D coulomb per second

1.6 Two waves moving in opposite directions collide with constructive interference. Wave A has an amplitude of 2 units and Wave B has an amplitude of 0.5 units. The combined wave has an amplitude of:

A 1.5 units

B 2 units

C 2.5 units

D 0.5 units

1.7 A ball with a mass of 2kg is released from a height of 20m and takes 1.2s to reach the ground. If the mass of the ball is increased to 5kg the time it takes to reach the ground will:

A Increase

B Decrease

C Remain the same

1.8 A glass rod and a cloth is rubbed against each other. The glass rod becomes positively charged. Which statement best describes the reason for this?

A The glass rod gained protons from the cloth.

B The cloth gained electrons from the glass rod.

C The glass rod lost protons to the cloth.

D The cloth lost electrons to the glass rod.

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Exotic Nuclei (Iasen-2013) - Proceedings Of The First International African Symposium On Exotic Nuclei Yuri Erastovich Penionzhkevich,Evgeni A Cherepanov,Dmitri Kamanin,Robert Bark,John Christopher Cornell,2014-11-20 This book is a collection of talks presented at the First International African Symposium on Exotic Nuclei IASEN 2013 The symposium was held at Cape Town South Africa from 2 6 December 2013 The IASEN2013 was dedicated to the problems of producing and investigating nuclei far from the line of stability The symposium was organized by two scientific centers iThemba LABS South Africa and the Joint Institute for Nuclear Research Dubna The main goal of the Symposium was to discuss the latest results on the production and study of the properties of the lightest to heaviest nuclei as well as the plans for future joint investigations in the field of exotic nuclei The talks were presented by the leading scientists in the field Among the topics of the symposium were the following production and study of properties of nuclei in extreme states strongly deformed nuclei highly excited and nuclei far from the line of stability as well as nuclei having large angular momenta New results of the investigations are presented in this book In particular the latest results on the synthesis of new superheavy elements are also presented At the Symposium were talks devoted to existing detecting devices and accelerators of exotic nuclei as well as to the future projects for the creation of similar set ups   Interval Neutrosophic Sets and Their Application in Multicriteria Decision Making Problems Hong-yu Zhang,Jian-qiang Wang,Xiao-hong Chen , As a generalization of fuzzy sets and intuitionistic fuzzy sets neutrosophic sets have been developed to represent uncertain imprecise incomplete and inconsistent information existing in the real world   *Journal of the Physical Society of Japan* ,2014   International Encyclopedia of Public Health William C Cockerham,2016-10-06 International Encyclopedia of Public Health Second Edition Seven Volume Set is an authoritative and comprehensive guide to the major issues challenges methods and approaches of global public health Taking a multidisciplinary approach this new edition combines complementary scientific fields of inquiry linking biomedical research with the social and life sciences to address the three major themes of public health research disease health processes and disciplines This book helps readers solve real world problems in global and local health through a multidisciplinary and comprehensive approach Covering all dimensions of the field from the details of specific diseases to the organization of social insurance agencies the articles included cover the fundamental research areas of health promotion economics and epidemiology as well as specific diseases such as cancer cardiovascular diseases diabetes and reproductive health Additional articles on the history of public health global issues research priorities and health and human rights make this work an indispensable resource for students health researchers and practitioners alike Provides the most comprehensive high level internationally focused reference work available on public health Presents an invaluable resource for both researchers familiar with the field and non experts requiring easy to find relevant global information and a greater understanding of the wider issues Contains interdisciplinary coverage across all aspects of public health Incorporates

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