

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**. (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 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 will be formed. (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)

Physical Science Grade 10 March Exam Papers 2014

Arturo Cuomo



Physical Science Grade 10 March Exam Papers 2014:

Measurement and Evaluation in Physical Education and Exercise Science Alan C. Lacy, Skip M.

Williams, 2018-02-13 The eighth edition of Measurement and Evaluation in Physical Education and Exercise Science now published in paperback and hardback offers students a clear and practical guide to best practice for measurement and evaluation in school and nonschool based physical activity programs Written by two academics with backgrounds in physical education teacher education PETE the book emphasizes the link between theory and practice and reflects the most recent changes in national physical education programs It covers a full range of introductory topics including current trends in measurement and evaluation program development statistics test selection and an expanded chapter on alternative assessment before introducing measurement for health related physical fitness measurement for psychomotor skills measurement for cognitive knowledge measurement for affective behaviors grading self evaluation Each chapter features learning aids such as objectives key terms practical applications and review questions while an appendix offers in depth Excel assignments Offering a full companion website featuring an instructor s manual lecture slides and a test bank Measurement and Evaluation in Physical Education and Exercise Science is a complete resource for instructors and students alike It is an essential text for students in measurement and evaluation classes as part of a degree program in physical education exercise science or kinesiology and a valuable reference for practitioners seeking to inform their professional practice

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World of Youth and Education explores how increasing migration and population changes are having an unprecedented impact on global education. Given that the number of children of migrant background is growing internationally, there is a need for increasing awareness of the educational attainment and cultural integration of this population group. This book presents international perspectives on migration and youth and analyses what kinds of effects such demographic changes are having on educational systems around the world. The chapters in this volume provide a fascinating insight into how countries around the world are dealing with loss or growth in their young population as well as changes to their education systems. Written by specialist academics from the relevant country, the book covers Cuba, Lithuania, the United Kingdom, the United States, Finland, Greece, Germany, Austria, Hungary, Latvia, China, Australia, India, Italy, and Poland. Taking into consideration the countries' social and political context, the chapters discuss educational issues surrounding curriculum assessment and the opportunities available for the support of young people. Conclusions are drawn about what could be done in the future for the benefit of both the migrant and the existing populations. The Shifting Global World of Youth and Education will be of great interest to academics, researchers, and postgraduate students in the disciplines of education, sociology, political sciences, and social work. The book will also give secondary teachers, teaching assistants, social workers, and youth workers the opportunity to reflect on their role within a national and international context.

Sustainability and Financial Services in the Digital Age Nadia Mansour, Lorenzo M. Bujosa Vadel, 2024-10-21. This volume examines how innovation and digital transformation impact the financial and accounting sectors. Featuring selected contributions from the third Finance Accounting and Law in the Digital Age conference 2024 held at the University of Salamanca, Spain, the contributions of this book explore the development of digital finance and the complicated equation between financial stability, the security of investors, and financial consumers; sustainable finance and support for innovation; climate change and the exponential growth of technology, which have built an explosion of financial innovation. The digital revolution has recently reached the financial sector, protected by a specific regulatory environment. The volume describes how all areas of finance are now invested by new players who are transforming the banking and financial landscape to create a novel digital ecosystem.

Designing and Teaching Fitness Education Courses Jayne Debra Greenberg, Nichole D. Calkins, Lisa S. Spinosa, 2022. Helps physical educators develop and implement fitness education courses in their curricula. Includes pacing guides which act as a teacher's blueprint throughout a semester and offers 139 video clips and 211 instructional photos that show the activities, all of which require no equipment.

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Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts If Einstein Ran the Schools Thomas Armstrong Ph.D.,2019-10-11 Many world class thinkers and creators have been concerned about the state of education in the United States Discover their thoughts on how children really learn and what teachers must do to optimally tap children s latent abilities During the last three decades education reformers have pushed standardized testing and policies like No Child Left Behind and Common Core to improve test scores and proficiency in basic skills However during this period that author Thomas Armstrong calls the miseducation of America a number of troubling trends have surfaced including a decrease in creative thinking scores among children in kindergarten through third grade Rather than focus on what s wrong with the education system that has produced these outcomes Armstrong lays out what creative thinkers know about how children should be educated In an extended thought experiment he asks what would happen if we turned the reins of educational policy over not to the politicians and educational bureaucrats but to eminent thinkers and creators like Albert Einstein Pablo Picasso Martin Luther King Jr Rachel Carson Doris Lessing Jane Goodall and other seminal culture builders What might they say about the best way to educate a child If Einstein Ran the Schools suggests that the answers to this intriguing question should guide future efforts to reform our nation s schools **Poison Ivy** Evan Mandery,2025-03-18 Hailed as a staggering portrait of inequality in America Philip Dray Poison Ivy tells the bigger seedier story of how elite colleges create paths to admission available only to the wealthy despite rhetoric to the contrary In a lively and trenchant Washington Monthly account Evan Mandery a Harvard graduate and current professor at a public college that serves low and middle income students reveals how tacit agreements between exclusive Ivy plus schools and white affluent suburbs create widespread de facto segregation And as a college degree continues to be the surest route to upward mobility the inequality bred in our broken higher education system is now a principal driver of skyrocketing income inequality Mandery contrasts the lip service paid to opportunity by so many elite colleges and universities with schools that actually walk the walk Now in an accessible paperback format Poison Ivy is a no holds barred takedown Forbes that synthesizes fascinating insider information on everything from how students are evaluated unfair tax breaks and questionable fundraising practices to suburban rituals testing tutoring tuition schemes and more This bold provocative indictment of America s elite colleges shows us exactly what s at stake and what will be possible if we muster the collective will to transform it The United States Catalog ,1950 *Cumulated Index to the Books* ,1943

Technological Innovation in Legacy Sectors William B. Bonvillian,Charles Weiss,2015-08-18 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors **Resources in**

Education ,1990 *Children's drawings: Evidence-based research and practice* Matteo Angelo Fabris,Monica

Shiakou, Claudio Longobardi, Christiane Lange-Küttner, 2023-08-24 **Foundations of Education** Leslie S. Kaplan, William A. Owings, 2022-01-21 Foundations of Education makes core topics in education accessible and personally meaningful to students pursuing a career within the education profession The Third Edition offers readers the breadth of coverage scholarly depth and conceptual analysis of contemporary issues that will help them gain a realistic and insightful perspective of the field *Skilled Interpersonal Communication* Owen Hargie, 2021-11-29 Established as the foremost textbook on communication the seventh edition of Owen Hargie's *Skilled Interpersonal Communication* is thoroughly revised and updated with the latest research findings theoretical developments and applications The contribution of skilled interpersonal communication to success in both personal and professional contexts is now widely recognised and extensively researched People have a deep seated and universal need to interact with others and the greater their communicative ability the more satisfying and rewarding will be their lives The main focus of this book is on the identification analysis and evaluation of the core skills needed in these interactions The first two chapters provide details of the nature of interpersonal communication and socially skilled performance respectively with a review of the main theoretical perspectives pertaining to each The book then offers detailed accounts of the fourteen main skill areas nonverbal communication reinforcement questioning reflecting listening explaining self disclosure set induction closure assertiveness influencing negotiating and interacting in and leading group discussions The book concludes with a discussion on the ethical issues in interpersonal communication This new edition also features an extended section on groupthink and analyses the impact of the coronavirus pandemic on aspects such as greeting patterns and the effectiveness of Project Fear by the UK government to secure citizen compliance Written by one of the foremost international experts in the field this is essential reading for students of interpersonal communication in general and to qualified personnel and trainees in many fields

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