

## 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 metal.
  - B. An attraction to all matter.
  - C. An attraction to electrons.
  - D. A repulsion of electrons.
- 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 What is 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 What would the amplitude be? (2)
  - 2.5.2 Describe the wave shape. (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)

# Grade 10 Physical Science Exam Papers 2014

**Yann Shiou Ong, Timothy Ter Ming  
Tan, Yew-Jin Lee**



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*School Science Practical Work in Africa* Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy **ICTES 2018** Robbi Rahim, Kadek Suranata, Ifdil Ifdil, Itsar Bolo Rangka, 2019-03-13 The technical

program of The First ICTES 2018 consisted of 114 full papers Aside from the high quality technical paper presentations we also held workshop and clinic manuscript that was carried out before the main track aims to strengthen the ability to write scientific publications Coordination with the steering chairs Dr Kadek Suranata S Pd M Pd Kons and the members of organizing committee is essential for the success of the conference We sincerely appreciate all the Advisory Boards for the constant support and guidance It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference In particular the Scientific Committee led by Cand Dr Robbi Rahim M Kom have completed the peer review process of technical papers and made a high quality technical program We are also grateful to Students Conference chairs were leading by Ida Ayu Made Diah Paramiswari for their support and all the authors who submitted their papers to the First ICTES 2018 We strongly believe that ICTES conference provides a good forum for all academicians researchers and practitioners to discuss all Educational science and technology aspects that are relevant to issues and challenge for sustainability in the 4th industrial revolution We also expect that the future ICTES conference will be as successful and stimulating as indicated by the contributions presented in this volume **Graduate Programs in the Humanities, Arts & Social Sciences 2014 (Grad 2)** Peterson's, 2013-11-22 Peterson's Graduate

Programs in the Humanities Arts Social Sciences 2014 contains comprehensive profiles of more than 11 000 graduate programs in disciplines such as applied arts design area cultural studies art art history conflict resolution mediation peace studies criminology forensics language literature psychology counseling religious studies sociology anthropology archaeology and more Up to date data collected through Peterson s Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students requirements expenses financial support faculty research and unit head and application contact information There are helpful links to in depth descriptions about a specific graduate program or department faculty members and their research and more There are also valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

**A Diversity of Pathways Through Science Education** Yann Shiou Ong, Timothy Ter Ming Tan, Yew-Jin Lee, 2024-06-18 This book presents the work of academics who contributed their work at the International Science Education Conference ISEC 2021 in alignment with the conference theme 20 20 Vision for Science Education Research Collectively the chapters aim to evoke intellectual dialogues on current and future trends in science education It features chapters that are grouped thematically into three sections Questions and Questioning in Science STEM education Developing Science Teaching and Assessment and History Philosophy and Sociology of Science Engineering and Informal Learning Through the various sections the book presents empirical studies in science and engineering classrooms or laboratories puts forward a framework for problem based learning provides an account of a prominent scientist s efforts in promoting practical science through analysis of historical documents and uncovers trends in informal science learning space research through a review of literature Each section is introduced by a commentary with further insights and thought provoking questions on ideas raised in the chapters The book also includes a Notes to Our Future Colleagues section in each chapter which presents readers with a collective vision for the state of science education research in the year 2050

Complete Science Communication Ryan C Fortenberry, 2018-10-22 Science communication is a rapidly expanding area and a key component of many final year undergraduate and postgraduate courses Authored by a highly regarded chemist and science communicator this textbook pulls together all aspects of science communication Complete Science Communication focusses on four major aspects of science communication writing for non technical audiences and science journalism writing for technical audiences and peer reviewed journal writing public speaking of science and public relations It first showcases how writing in a journalistic style is done and provides a guide for colloquially communicating science Then the art of writing scientific papers is conjoined to this idea to make technical manuscripts more digestible readable and hence citable These ideas are next taken into the spoken word so that the scientist can engage in telling their science like that natural human art of campfire stories Finally all of these communication concepts are wrapped together in a discussion of public relations

providing the scientist with an appreciation for the marketing directors and news disseminators with whom they will work. Written in an accessible way this textbook will provide science students with an appreciative understanding of communication marketing journalism and public relations. They can incorporate these aspects into their own practices as scientists allowing them to liaise with practitioners in the communication field. *Annual Report Mpumalanga* (South Africa). Department of Education, 2014

**AISTSSE 2018** Martina Restuati, Herbert Sipahutar, Juniastel Rajagukguk, 2019-10-04. This book contains the proceedings of the The 5th Annual International Seminar on Trends in Science and Science Education AISTSSE and The 2nd International Conference on Innovation in Education Science and Culture ICIESC where held on 18 October 2018 and 25 September 2018 in same city Medan North Sumatera. Both of conferences were organized respectively by Faculty of Mathematics and Natural Sciences and Research Institute Universitas Negeri Medan. The papers from these conferences collected in a proceedings book entitled Proceedings of 5th AISTSSE. In publishing process AISTSSE and ICIESC were collaboration conference presents six plenary and invited speakers from Australia, Japan, Thailand and from Indonesia. Besides speaker around 162 researchers covering lecturers, teachers, participants and students have attended in this conference. The researchers come from Jakarta, Yogyakarta, Bandung, Palembang, Jambi, Batam, Pekanbaru, Padang, Aceh, Medan and several from Malaysia and Thailand. The AISTSSE meeting is expected to yield fruitful result from discussion on various issues dealing with challenges we face in this Industrial Revolution 4.0. The purpose of AISTSSE is to bring together professionals, academics and students who are interested in the advancement of research and practical applications of innovation in education science and culture. The presentation of such conference covering multi disciplines will contribute a lot of inspiring inputs and new knowledge on current trending about Mathematical Sciences, Mathematics Education, Physical Sciences, Physics Education, Biological Sciences, Biology Education, Chemical Sciences, Chemistry Education and Computer Sciences. Thus this will contribute to the next young generation researches to produce innovative research findings. Hopely that the scientific attitude and skills through research will promote Unimed to be a well known university which persist to be developed and excelled. Finally we would like to express greatest thankful to all colleagues in the steering committee for cooperation in administering and arranging the conference. Hopefully these seminar and conference will be continued in the coming years with many more insight articles from inspiring research. We would also like to thank the invited speakers for their invaluable contribution and for sharing their vision in their talks. We hope to meet you again for the next conference of AISTSSE.

**2024-25 RRB Technician Grade-I Signal Basic Science & Engineering Study Material Question Bank** YCT Expert Team, 2024. 25 RRB Technician Grade I Signal Basic Science Engineering Study Material Question Bank 448 895 E. This book contains 2500 questions and also covers Physics Fundamentals, Electricity and Magnetism and Electronics and Measurements.

*Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem* Kathleen



Buse, Catherine Hill, Romila Singh, 2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge. Novel insights, innovation, a broader community to conduct research and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal. As such, this Research Topic in *Frontiers in Psychology* addresses the underrepresentation of women in engineering and computing as a complex but solvable problem. This Research Topic seeks to inform the global community about advances in understanding the underrepresentation of women in engineering and computing with a focus on what enables change. Further, this Topic will promote fresh perspectives, innovative methodologies, and mixed method approaches important to accelerating the pace of change.

**22 Topic-wise CTET Paper 2 Mathematics & Science Previous Year Solved Papers (2024 - 2011) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language** Disha Experts, 2024-10-22 The First edition of the book *22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition* contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024. The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English 11 Topics Section V Hindi has 10 Topics. The detailed solutions are provided immediately after each topic. Solutions are provided for each question. The languages covered in the tests are English 1st language and Hindi 2nd language. The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam.

*Peterson's Grad Programs in Physical Sciences, Math, Ag Sciences, Envir & Natural Res 20154 (Grad 4)* Peterson's, 2014-10-21 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2015 contains more than 3 000 graduate programs in the relevant disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more. Informative data profiles for more than 3 000 graduate programs at nearly 600 institutions are included complete with facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles. Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research. Comprehensive directories list programs in this volume as well as others in the graduate series.

*Understanding Physics Using Mathematical Reasoning* Andrzej Sokolowski, 2021-08-20 This book speaks about physics discoveries that intertwine mathematical reasoning modeling and scientific inquiry. It offers ways of bringing together the structural domain of mathematics and the content of physics in one coherent inquiry. Teaching and learning physics is challenging because students lack the skills to merge these learning paradigms. The purpose of this book is not only to improve access to the understanding of natural phenomena but also to inspire new ways of delivering and understanding the complex concepts of physics. To sustain physics education in college classrooms authentic training that would help develop high school students skills of transcending function modeling

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