

P1H Edexcel PiXL Mark Scheme November 2014

Question	Answer	Additional Guidance
1 (a)	From left to right: radio/infra-red/x-rays (3)	In that order Allow 1 mark for each correct, maximum 3
1 (b) (i)	Infra-red (1)	
1 (b) (ii)	Microwaves (1)	
1 (c)	Any 2 from: <ul style="list-style-type: none"> • Cancer • Kill cells • Burns to skin • Snow blindness 	
	(2)	
1 (d)	Reflects certain wavelengths (1) of visible light (1)	
1 (e)	A gamma (1)	Score 0 marks if more than one box is crossed
(Total for Question 1 = 10 marks)		
2 (a) (i)	Arrows going away from ray box (1)	
2 (a) (ii)	Emerging ray drawn correctly parallel to the incident ray (1)	
2 (a) (iii)	C Refraction (1)	Score 0 marks if more than one box is crossed
2 (a) (iv)	Nothing/it would go straight through (1)	
2 (b)	<ul style="list-style-type: none"> • Fish drawn to the left of the apparent position (1) • Ray drawn from actual fish to surface and then refracted away from the normal (1) • To the eye of the fisherman (1) 	Allow any position left The directional arrows are essential for maximum of 3 marks
(Total for Question 2 = 7 marks)		
3 (a) (i)	C expanding (1)	Score 0 marks if more than one box is crossed
3 (a) (ii)	Distance from earth/how far away the galaxy is (1) Speed it is travelling at (1)	
3 (b)	Cosmic microwave background radiation (1)	
3 (c)	B Why was the Universe created? (1)	
3 (d)	Frequency = Wave speed / wavelength (1) $3 \times 10^8 / 20$ (1) 1.5×10^7 or 15 000 000 (1)	Correct answer gains 3 marks with no working
3 (e)	Sound gets quieter (1) because pitch/frequency gets lower (1) due to the Doppler effect (1).	
(Total for Question 3 = 11 marks)		
4 (a)	C (1) as it uses the most energy (1)	
4 (b)	<ul style="list-style-type: none"> • Advantage – more efficient so uses less energy/costs less to run/contributes less to greenhouse gases (1) • Disadvantage - making new fridges uses up 	Need to link into efficiency to gain the advantage mark

Marking Scheme For Integrated Science Nov 2014

Jan Eloff, Madeleine Bihina Bella



Marking Scheme For Integrated Science Nov 2014:

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

Critical Role of Animal Science Research in Food Security and Sustainability National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world's animal agriculture system Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century

Software Failure Investigation Jan Eloff, Madeleine Bihina Bella, 2017-09-07 This book reviews existing operational software failure analysis techniques and proposes near miss analysis as a novel and new technique for investigating and preventing software failures The authors provide details on how near miss

analysis techniques focus on the time window before the software failure actually unfolds so as to detect the high risk conditions that can lead to a major failure They detail how by alerting system users of an upcoming software failure the detection of near misses provides an opportunity to collect at runtime failure related data that is complete and relevant They present a near miss management systems NMS for detecting upcoming software failures which can contribute significantly to the improvement of the accuracy of the software failure analysis A prototype of the NMS is implemented and is discussed in the book The authors give a practical hands on approach towards doing software failure investigations by means of near miss analysis that is of use to industry and academia

Social and Behavioral Science for Health Professionals Brian P. Hinote, Jason Adam Wasserman, 2019-12-26 Health professionals interest in social and behavioral science is rapidly increasing due to the growing recognition that social factors such as income education race gender and age all impact individuals health These and other social conditions also shape patients illness experiences the ways that they interact with health care providers and the effectiveness of with which health professionals provide care Understanding these social determinants and applying them to clinical practice is a major challenge for healthcare providers which is why programs and accrediting bodies have been including more social and behavioral science content into the curricula for medical nursing and allied health programs *Social and Behavioral Science for Health Professionals* provides in depth coverage of the social determinants of health and how to directly apply these insights in clinical practice thereby enhancing clinicians ability to engage their patients and more effectively render care Broken into four parts the book opens with the foundations of social science and health including the shifting landscape of health and healthcare The authors then cover the way in which social determinants of health shape large scale features of health and illness in society how they influence interactions between patients and providers in clinical settings and how they shape health care systems and policies Threshold concepts in each chapter focus on conceptual and transformative learning while learning objectives activities and discussion questions provide instructors and students with robust sets of learning aids that intentionally focus on practical clinical epidemiological and policy issues Ideal for students educators and professionals in health care medical sociology public health and related fields *Social and Behavioral Science for Health Professionals* is the only introduction available that clearly articulates why social and behavioral science matter in clinical care New to This Edition New Chapter 13 on Comparative Health Care Systems covers four models of health care systems and expands the global focus of the book Greater emphasis on the LGBTQ community provides coverage of how gender expression and sexual orientation influence health and quality of care received New coverage of current issues such as the opioid crisis and vaccine hesitancy that have been rendered especially important by the COVID 19 pandemic Added discussion questions at the end of every chapter strengthen students critical thinking skills and abilities to apply new insights to practical real world examples

An Integrated Approach to Home Security and Safety Systems Sonali Goyal, Neera Batra, N. K. Batra, 2021-10-15 This book provides an integrated solution for

security and safety in the home covering both assistance in health monitoring and safety from strangers intruders who want to enter the home with harmful intentions. It defines a system whereby recognition of a person stranger at the door is done using three modules: Face Recognition, Voice Recognition, and Similarity Index. These three modules are taken together to provide a percentage likelihood that the individual is in the known or unknown category. The system can also continuously monitor the health parameters of a vulnerable person living alone at home and aid them in calling for help in an emergency. The authors have analyzed a number of existing biometric techniques to provide security for an individual living alone at home. These biometric techniques have been tested using MATLAB image processing and signal processing toolboxes and results have been calculated on the basis of recognition rate. A major contribution in providing security is a hybrid algorithm proposed by the author named PICA which combines features of both PCA (Principal Component Analysis) and ICA (Independent Component Analysis) algorithms. This hybrid approach gives better performance recognition than either system alone. The second proposed hybrid algorithm for voice recognition is named as a MFRASTA algorithm by combining features of MFCC (Mel Frequency Cepstral Coefficient) and RASTA (PLP Relative Spectral Perceptual Linear Prediction) algorithm. After performing experiments, results are collected on the basis of recognition rate. The authors have also proposed a third technique named as a Similarity Index to provide trust-based security for an individual. This technique is text-independent in which a person is recognized by pronunciation frequency, tone, pitch, etc., irrespective of the content spoken by the person. By combining these three techniques, a high recognition rate is provided to the person at the door and high security to the individual living independently at home. In the final contribution, the authors have proposed a fingertip-based application for health monitoring by using the concept of sensors. This application is developed using iPhone 6s camera. When a person puts their fingertip on a camera lens with the help of brightness of the skin, the person's heartbeat will be monitored. This is possible even with a low quality camera. In case of any emergency, text messages will be sent to the family members of the individual living alone by using 3G Dongle and MATLAB tool. Results show that the proposed work outperforms all the existing techniques used in face recognition, voice recognition, and health monitoring alone.

Changing Global

Perspectives on Horseshoe Crab Biology, Conservation and Management Ruth H. Carmichael, Mark L. Botton, Paul K.S. Shin, Siu Gin Cheung, 2015-11-09. This book reports significant progress of scientific research on horseshoe crabs including aspects of evolution, genetics, ecology, population dynamics, general biology, and physiology within the recent 10 years. It also highlights the emerging issues related to world-wide conservation threats, status, and needs. The contributions in this book represent part of an ongoing global effort to increase data and concept sharing to support basic research and advance conservation for horseshoe crabs.

Health Literacy: Breakthroughs in Research and Practice Management Association, Information Resources, 2017-04-17. The development of better processes to relay medical information has enhanced the healthcare field. By implementing effective collaborative strategies, this ensures proper quality and instruction.

for both the patient and medical practitioners Health Literacy Breakthroughs in Research and Practice examines the latest advances in providing and helping patients and medical professionals to understand basic health information and the services that are most appropriate Including innovative studies on interactive health information health communication and health education this multi volume book is an ideal source for professionals researchers academics practitioners and students interested in the improvement of health literacy ECISM 2017 11th European Conference on Information Systems Management ,2017-09-14 22 Topic-wise CTET Paper 2 Social Science/ Studies 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 Social Science Studies 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 Social Science has 38Topics Section III English 11 Topics Section IV 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 **Weaponisation of Space: An Inevitable Reality and Plausible Fallout** Group Captain PA Patil,2017-01-15 Militarily use of spacebased assets when integrated with operations assumes importance as one of the many force multipliers As on date outer space is being extensively used by the armed forces for varied services which include navigation intelligence surveillance reconnaissance environmental monitoring and advance warning The command and control in today s netcentric environment also depends on space resources Thus the use of outer space with spacebased assets in support of military operations leads to the deduction that space as a medium stands militarised Of late many of the dominant nations have developed or are expanding capabilities to attack the spacebased assets of potential adversaries to disrupt command and control structures Countries like the US and China are contesting for space supremacy and working towards developing spacebased weapons capable of being delivered from spacebased platforms These developments in turn are infusing a sense of insecurity amongst other international players including India and have raised concerns worldwide Development of spacebased weapons by any state has the potential to ignite a new arms race in space as many countries now possess the wherewithal for launching spacebased assets capable of carrying the required payloads Thus from the present capability of militarisation of space we seem to be graduating towards weaponisation of space As outer space has been designated as one of the global commons any sort of deployment or employment of space weapons raises concerns and any use of spacebased weapons will have unpleasant cascading effects In the absence of any international curb or law on space weaponisation it continues to be a conceptual possibility as well as an empirical reality **Integrated Science** Nima Rezaei,2021-06-16 Integrated Science Science without Borders is the first volume of the INTEGRATED SCIENCE Book series aiming to publish the results of the most updated ideas and reviews in

transdisciplinary fields and to highlight the integration of discrete disciplines including formal sciences physical chemical sciences and engineering biological sciences medical sciences and social sciences This volume primarily focuses on the research involving the integration of two or more academic fields offering an innovative borderless view which is one of the main focuses of the Universal Scientific Education and Research Network USERN The whole world is suffering from complex problems these are borderless problems thus a borderless solution could merely solve such complex issues

Transdisciplinarity is a domain that researchers work jointly using a shared conceptual framework drawing together disciplinary specific theories concepts and approaches to address common problems Lack of confidence lack of expertise complexities of healthcare the confusing nature of healthcare environments and lack of organization and standardization are the obstacles of successful scientific communication Consequently this book provides an overview of the essential elements of transdisciplinary studies and integrated science The unique aspect of this book privileging it from other books is covering all aspects of science as harmonies of a single symphony **The Political Economy of Electricity** Mark Cooper,2017-04-24

Providing critical insights that will interest readers ranging from economists to environmentalists policymakers and politicians this book analyzes the economics and technology trends involved in the dilemma of decarbonization and addresses why aggressive policy is required in a capitalist political economy to create a sea change away from fossil fuels The environmental damage across the globe is a result of the success of capitalist industrialism 250 years of carbon pollution resulting from consumption of fossil fuels to drive the economy and the worldwide aspiration to ever increasing levels of economic development But capitalism has also produced the tools to solve the problems it has created in the form of a technological revolution in low carbon renewables distributed resources and intelligent systems to integrate supply and demand This book comprehensively examines the political economy of electricity and analyzes the challenge of transforming today s electricity sector to meet the dual goals of decarbonization and development expressed in the Paris Agreement Author Mark Cooper defines the dilemma of development and decarbonization as the great challenge facing the electricity industry and documents how the economic resources costs of a 100 percent renewable portfolio has declined to the point that decarbonization can pay for itself making the low carbon renewable technologies that enable desired environmental and public health benefits an easy sell He identifies the substantial benefit of increasing use of information communications and advanced control technologies shows how targeted innovation could speed the transition by a decade or two and lower the overall cost of the transition by as much as half and explains why the flexible multi stakeholder approach of the Paris Agreement is the correct approach **Handbook of Forensic Statistics** David L. Banks,Karen Kafadar,David H.

Kaye,Maria Tackett,2020-11-05 Handbook of Forensic Statistics is a collection of chapters by leading authorities in forensic statistics Written for statisticians scientists and legal professionals having a broad range of statistical expertise it summarizes and compares basic methods of statistical inference frequentist likelihoodist and Bayesian for trace and other

evidence that links individuals to crimes the modern history and key controversies in the field and the psychological and legal aspects of such scientific evidence Specific topics include uncertainty in measurements and conclusions statistically valid statements of weight of evidence or source conclusions admissibility and presentation of statistical findings and the state of the art of methods including problems and pitfalls for collecting analyzing and interpreting data in such areas as forensic biology chemistry and pattern and impression evidence The particular types of evidence that are discussed include DNA latent fingerprints firearms and toolmarks glass handwriting shoeprints and voice exemplars

A Pragmatist Orientation for the Social Sciences in Climate Policy Martin Kowarsch, 2016-09-01 While economic and other social science expertise is indispensable for successful public policy making regarding global climate change social scientists face trade offs between the scientific credibility policy relevance and legitimacy of their policy advice From a philosophical perspective this book systematically addresses these trade offs and other crucial challenges facing the integrated economic assessments of the Intergovernmental Panel on Climate Change IPCC Based on John Dewey s pragmatist philosophy and an analysis of the value laden nature and reliability of climate change economics the book develops a refined science policy model and specific guidelines for these assessments of climate policy options The core idea is to scientifically explore the various practical implications of alternative climate policy pathways in an interdisciplinary manner together with diverse stakeholders This could facilitate an iterative deliberative public learning process concerning disputed policy issues This volume makes novel contributions to three strands of the literature 1 the philosophy of social science in policy 2 the philosophy of economics and 3 debates about the design of scientific assessments including the continuous IPCC reform debate This work is thus interesting for philosophers and other scholars reflecting on the science policy interface but also for assessment practitioners climate policy makers and economists The science policy approach developed in this volume has already influenced the recent socio economic IPCC assessment

Toward an Integrated Science of Wellbeing Elizabeth Rieger, Robert Costanza, Ida Kubiszewski, Paul Dugdale, 2023-05-19 There has always been interest in understanding what constitutes the good life and the basis for creating it Much has been written about health and wellbeing at multiple scales from the physical and psychological through to the societal and environmental Wellbeing has been studied from the perspectives of psychology medicine economics social science ecology and political science However the interconnections between these scales and perspectives have received far less attention even though understanding these interdependencies is critical to the comprehensive understanding of wellbeing and how to improve it In Toward an Integrated Science of Wellbeing the contributing authors connect these diverse scales and perspectives to better guide wellbeing research and public policy The book is divided into four sections representing each domain of wellbeing research psychological human biological societal and environmental but the authors extend their work to consider the interconnections between these domains seeking integration across all scales throughout Individual chapters explore topics such as indigenous perspectives and wellbeing

wellbeing in higher education positive ageing inequality and wellbeing health and climate change and greenspaces and wellbeing This integrated approach offers a first step toward a more complete understanding of wellbeing that can propel wellbeing research and initiatives in novel and fruitful directions

Handbook of Theory and Practice of Sustainable Development in Higher Education Walter Leal Filho, Mark Mifsud, Chris Shiel, Rudi Pretorius, 2016-12-01 This Handbook approaches sustainable development in higher education from an integrated perspective addressing the dearth of publications on the subject It offers a unique overview of what universities around the world are doing to implement sustainable development i e via curriculum innovation research activities or practical projects and how their efforts relate to education for sustainable development at the university level The Handbook gathers a wealth of information ideas best practices and lessons learned in the context of executing concrete projects and assesses methodological approaches to integrating the topic of sustainable development in university curricula Lastly it documents and disseminates the veritable treasure trove of practical experience currently available on sustainability in higher education

The Global Financial and Economic Crisis in the South Leon-Manriquez, Jose Luis, Moyo, Theresa, 2017-05-03 This book is the outcome of a South South conference jointly organized by the Asian Political and International Studies Association APISA the Latin American Council of Social Sciences CLACSO and the Council for the Development of Social Science Research in Africa CODESRIA in Dakar Senegal May 2012 The conference was organised in response to the financial crisis of 2008 which started in the United States and Europe with reverberating effects on a global scale Economic problems emanating from such crises usually leave major social and structural impacts on important sectors of the society internationally They affect living standards and constrain the well being of people especially in poor countries Persistent problems include high unemployment increased debt and low growth in developed countries as well as greater difficulties in accessing finance for investment in the developing world There is a need for countries in the South to examine the available options for appropriate national and regional responses to the different problems emanating from the economic crisis This book attempts to provide ideas on some strategic responses to the disastrous impact of the crisis while keeping in mind the global common interest of the South It is hoped that the book will contribute significantly towards the agenda to rethink development and the quest for alternative paradigms for a just stable and equitable global political economic and social system A system in which Africa Asia and Latin America are emancipated from the shackles of hegemonic and anachronistic neoliberal dictates that have nothing more to offer than crises vulnerabilities and dependency

Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong s use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated

by a series of research studies in order to satisfy key stakeholders **Professional Journal of the United States Army**
,2009-11 *Principles of Clinical Medicine for Space Flight* Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its
first edition *Principles of Clinical Medicine for Space Flight* established itself as the authoritative reference on the
contemporary knowledge base of space medicine and standards of care for space flyers It received excellent notices and is
used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine
Certifying Examination under the American Board of Preventive Medicine In the intervening few years the continuous
manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant
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