

Page 5	Mark Scheme IGCSE – May/June 2014	Syllabus 0625	Paper 31
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- (c) one from:  
 read measuring cylinder levels at bottom of meniscus  
 repeat volume measurement and find average  
 place eye level with surface in measuring cylinder (to avoid parallax error)  
 place coins one at a time to avoid air bubbles between coins  
 avoid splashing when adding coins to water  
 make sure coins are dry/clean  
 use narrow/small measuring cylinder  
 place containers on horizontal surface  
 check zero of balance/spring balance/scales  
 displacement can method: make sure dripping finishes before and after adding coins

B1

[Total: 7]

- 3 (a)  $Fd$  OR weight  $\times d$  OR  $mgh$  OR  $30\,000 \times 10 \times 140$  OR  $4.2 \times 10^7$  seen anywhere C1  
 $(P = ) E/t$  OR  $W/t$  OR  $mgh/t$  symbols or words C1  
 $4.2 \times 10^7 / 60$  C1  
 $7.0 \times 10^5 W / 700 \text{ kW} / 0.7 \text{ MW}$  A1
- (b) efficiency = output / input OR  $(P_{in} =) 100 \times P_{out} / \text{efficiency}$  C1  
 $(P_{in} =) 100 \times 7 \times 10^5 / 70$  C1  
 $1.0 \times 10^6 W$  OR  $1\,000\,000 W$  OR  $1.0 \text{ MW}$  A1
- (c) (horizontal) wind has no effect on P.E gained / vertical force on water  
 OR same upward / vertical force acts on water  
 OR force from wind is horizontal

B1

[Total: 8]

- 4 (a) 2 lines at  $90^\circ$  to each other of same length labelled 30 N or 6 cm B1  
 both lines  $6.0 \pm 0.2 \text{ cm}$  B1  
 arrows on the two lines drawn, either head to tail B1  
 OR a complete square shown with diagonal and arrows on adjacent sides  
 resultant in range 40–45 N B1
- (b) (vertically) upwards B1

# Extreme Papers Physics May Jun 2014

**Team Prabhat**



## **Extreme Papers Physics May Jun 2014:**

*Ships and Offshore Structures XIX* Carlos Guedes Soares, Y. Garbatov, 2015-09-03 This three volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais Portugal on 7th to 10th September 2015 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of Climate Change and Cities Cynthia Rosenzweig, William D. Solecki, Patricia Romero-Lankao, Shagun Mehrotra, Shobhakar Dhakal, Somayya Ali Ibrahim, 2018-03-29 Climate Change and Cities bridges science to action for climate change adaptation and mitigation efforts in cities around the world *5 Year-wise SBI Bank PO Prelims & Mains Solved Papers (2018-2014)* Disha

Experts, 2019-05-05 10 Year wise SBI Bank PO Prelims Mains Solved Papers 2018 2014 consists of past years memory based solved papers from 2018 to 2014 The solutions have been prepared after a thorough research The detailed solutions are provided immediately after each paper **CUET (UG) Common University Entrance Test (Under-Graduate) 15**

**Practice Papers (English)** Team Prabhat, 2022-04-05 NTA National Testing Agency CUET UG Common University Entrance Test Under Graduate 15 Practice Papers English The Present Edition of CUET UG has been carefully prepared to serve as a Solved Papers Practice Sets for those aspirants who are preparing for Common University Entrance Test under graduate conducted by NTA National Testing Agency This book contains 15 Practice Sets and also includes Latest Solved Papers with explanation The subjects are arranged exactly as per the latest syllabus and pattern to make it 100% convenient for the candidates This book gives you an idea of the questions asked in previous years exams and also what type of questions you should expect in the upcoming exam Topics to be covered Section 1 A Languages English Hindi Section 3 General Test Numerical Ability and Quantitative Reasoning General Mental Ability Logical and Analytical Reasoning General Knowledge Highlights of the book Under graduate computer based test Practices Sets are a collection of useful exam questions Answers with explanations are available for all questions Based on latest syllabus and exam pattern NTA National Testing Agency CUET UG Common University Entrance Test Under Graduate 15 Practice Papers English by Team Prabhat This book is designed to assist candidates preparing for the NTA CUET UG for Undergraduate programs Authored by Team Prabhat it provides 15 practice papers in English to help aspirants excel in this competitive examination Key Aspects of the Book NTA National Testing Agency CUET UG Common University Entrance Test Under Graduate 15 Practice Papers English by Team Prabhat NTA CUET UG Exam Preparation Team Prabhat's book is tailored to assist candidates in preparing effectively for the NTA CUET UG for Undergraduate programs 15 Practice Papers in English The book offers 15 practice papers allowing aspirants to test their knowledge and readiness for the examination Enhanced Preparation The practice papers provide ample opportunities for candidates to improve their understanding of the subjects and exam pattern Author Team Prabhat provides a specialized resource in English to aid aspirants in their preparation for the NTA CUET UG for Undergraduate

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**Intracellular biomineralization in bacteria** Damien Faivre,2014-11-14 Bacteria can sequester metals and other ions intracellularly in various forms ranging from poorly ordered deposits to well ordered mineral crystals Magnetotactic bacteria provide one example of such intracellular deposits They synthesize intracellular magnetic minerals of magnetite  $\text{Fe}_3\text{O}_4$  and or greigite  $\text{Fe}_3\text{S}_4$  magnetosomes which are generally less than 150 nm and organized into one or multiple chain structures The magnetosome chain s act like a compass needle to facilitate the navigation of magnetotactic bacteria by using the Earth s magnetic field Due to their ubiquitous distribution in aquatic and sedimentary environments magnetotactic bacteria play important roles in global iron cycling Other intracellular mineral phases have been evidenced in bacteria such as  $\text{As}_2\text{S}_3$

CaCO<sub>3</sub> CdS Se<sub>0</sub> or various metal phosphates which may play as well a significant role in the geochemical cycle of these elements However in contrast to magnetotactic bacteria the biological and environmental function of these particles remains a matter of debate In recent years such intracellularly biomineralizing bacteria have become an attractive model system for investigating the molecular mechanisms of organelle like structure formation in prokaryotic cells The geological significance of intracellular biomineralization is important spectacular examples are fossil magnetosomes that may significantly contribute to the bulk magnetization of sediments and act as potential archives of paleoenvironmental changes In addition intracellular mineral deposits formed by bacteria have potentially versatile applications in biotechnological and biomedical fields After more than four decades of research the knowledge on intracellularly biomineralizing bacteria has greatly improved The aim of this Research Topic is to highlight recent advances in our understanding of intracellular biomineralization by bacteria Magnetotactic bacteria are a system of choice for that topic but other intracellularly biomineralizing bacteria may bring a unique perspective on that process Research papers reviews perspectives and opinion papers on i the diversity and ecology of intracellularly biomineralizing bacteria ii the molecular mechanisms of intracellular biomineralization iii the chemo and magneto taxis behaviors of magnetotactic bacteria iv the involvement of intracellularly biomineralizing bacteria in local or global biogeochemical cycling v the paleoenvironmental reconstructions and paleomagnetic signals based on fossil magnetosomes vi and the applications of intracellular minerals in biomaterial and biotechnology were welcomed

**High Performance Computing. ISC High Performance 2022 International Workshops** Hartwig Anzt, Amanda Bienz, Piotr Luszczek, Marc Baboulin, 2023-01-03 This book constitutes the refereed conference proceedings of the workshops held at the 37th International ISC High Performance 2022 Conference in Hamburg Germany in June 2 2022 The 27 full papers were included in this book were carefully reviewed and selected from 43 submissions ISC High Performance 2022 presents the following workshops Compiler assisted Correctness Checking and Performance Optimization for HPC HPC on Heterogeneous Hardware H3 Malleability Techniques Applications in High Performance Computing Fifth Workshop on Interactive High Performance Computing 3rd ISC HPC International Workshop on Monitoring Operational Data Analytics 6th International Workshop on In Situ Visualization 17th Workshop on Virtualization in High Performance Cloud Computing Chapter Compiler Assisted Instrumentation Selection for Large Scale C Codes is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com/div](https://www.springer.com/div)

**The Age of Em** Robin Hanson, 2016-05-13 Robots may one day rule the world but what is a robot ruled Earth like Many think the first truly smart robots will be brain emulations or ems Scan a human brain then run a model with the same connections on a fast computer and you have a robot brain but recognizably human Train an em to do some job and copy it a million times an army of workers is at your disposal When they can be made cheaply within perhaps a century ems will displace humans in most jobs In this new economic era the world economy may double in size every few weeks Some say we

can't know the future especially following such a disruptive new technology but Professor Robin Hanson sets out to prove them wrong. Applying decades of expertise in physics, computer science, and economics, he uses standard theories to paint a detailed picture of a world dominated by ems. While human lives don't change greatly in the em era, em lives are as different from ours as our lives are from those of our farmer and forager ancestors. Ems make us question common assumptions of moral progress because they reject many of the values we hold dear. Read about em mind speeds, body sizes, job training, and career paths, energy use, and cooling infrastructure, virtual reality, aging, and retirement, death and immortality, security, wealth, inequality, religion, teleportation, identity, cities, politics, law, war, status, friendship, and love. This book shows you just how strange your descendants may be, though ems are no stranger than we would appear to our ancestors. To most ems, it seems good to be an em.

**Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International Associations, Union of International Associations, 2013-06-21. Volume 1 A and B covers international organizations throughout the world, comprising their aims, activities, and events.

**OpenSHMEM and Related Technologies. OpenSHMEM in the Era of Extreme Heterogeneity** Swaroop Pophale, Neena Imam, Ferrol Aderholdt, Manjunath Gorentla Venkata, 2019-03-18. This book constitutes the proceedings of the 5th OpenSHMEM Workshop held in Baltimore, MD, USA, in August 2018. The 14 full papers presented in this book were carefully reviewed and selected for inclusion in this volume. The papers discuss a variety of ideas for extending the OpenSHMEM specification and discuss a variety of concepts, including interesting use of OpenSHMEM in HOOVER, a distributed flexible and scalable streaming graph processor, and scaling OpenSHMEM to handle massively parallel processor arrays. The papers are organized in the following topical sections: OpenSHMEM library extensions and implementations; OpenSHMEM use and applications; and OpenSHMEM simulators, tools, and benchmarks.

**Dangerous Years** David W. Orr, 2016-11-22. A leading environmental thinker takes a hard look at the obstacles and possibilities on the long road to sustainability. This gripping, deeply thoughtful book considers the future of civilization in the light of what we know about climate change and related threats. David Orr, an award-winning internationally recognized leader in the field of sustainability and environmental education, pulls no punches, even with the Paris Agreement of 2015. Earth systems will not reach a new equilibrium for centuries. Earth is becoming a different planet, more threadbare and less biologically diverse, with more acidic oceans and a hotter, more capricious climate. Furthermore, technology will not solve complex problems of sustainability. Yet we are not fated to destroy the Earth, Orr insists. He imagines sustainability as a quest and a transition built upon robust and durable democratic and economic institutions, as well as changes in heart and mindset. The transition he writes is beginning from the bottom up, in communities and neighborhoods. He lays out specific principles and priorities to guide us toward enduring harmony between human and natural systems.

***Solar and Space Weather Radio Physics*** Bin Chen, Dale E. Gary, Nicole Vilmer, 2021-07-28.

***Making a World of Difference*** National Academy of Engineering, 2014-01-01. Fifty years ago, the National Academy of Engineering (NAE) was founded by the stroke of a pen when

the National Academy of Sciences Council approved the NAE's articles of organization Making a World of Difference commemorates the NAE anniversary with a collection of essays that highlight the prodigious changes in people's lives that have been created by engineering over the past half century and consider how the future will be similarly shaped Over the past 50 years engineering has transformed our lives literally every day and it will continue to do so going forward utilizing new capabilities creating new applications and providing ever expanding services to people The essays of Making a World of Difference discuss the seamless integration of engineering into both our society and our daily lives and present a vision of what engineering may deliver in the next half century

*Higher and Colder* Vanessa Heggie, 2019-08-02 During the long twentieth century explorers went in unprecedented numbers to the hottest coldest and highest points on the globe Taking us from the Himalaya to Antarctica and beyond Higher and Colder presents the first history of extreme physiology the study of the human body at its physical limits Each chapter explores a seminal question in the history of science while also showing how the apparently exotic locations and experiments contributed to broader political and social shifts in twentieth century scientific thinking Unlike most books on modern biomedicine Higher and Colder focuses on fieldwork expeditions and exploration and in doing so provides a welcome alternative to laboratory dominated accounts of the history of modern life sciences Though centered on male dominated practices science and exploration it recovers the stories of women's contributions that were sometimes accidentally and sometimes deliberately erased Engaging and provocative this book is a history of the scientists and physiologists who face challenges that are physically demanding frequently dangerous and sometimes fatal in the interest of advancing modern science and pushing the boundaries of human ability

*Learning and Intelligent Optimization* Paola Festa, Meinolf Sellmann, Joaquin Vanschoren, 2016-11-29 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Conference on Learning and Optimization LION 10 which was held on Ischia Italy in May June 2016 The 14 full papers presented together with 9 short papers and 2 GENOPT papers were carefully reviewed and selected from 47 submissions The papers address all fields between machine learning artificial intelligence mathematical programming and algorithms for hard optimization problems Special focus is given to new ideas and methods challenges and opportunities in various application areas general trends and specific developments

*Sand, Snow, and Stardust* Gretchen Heefner, 2025-05-05 A vivid tour of US military efforts to understand survive and command harsh environments worldwide and beyond Deserts the Arctic outer space these extreme environments are often seen as inhospitable places at the edges of our maps But from the 1940s through the 1960s spurred by the diverse and unfamiliar regions the US military had navigated during World War II the United States defense establishment took a keen interest in these places dispatching troops to the Aleutian Islands North Africa the South Pacific and beyond To preserve the country's status as a superpower after the war to pave runways and build bridges engineers had to understand and then conquer dunes permafrost and even the surface of the moon Sand Snow and Stardust explores how the US military generated a new

understanding of these environments and attempted to master them intending to cement America's planetary power. Operating in these regions depended as much on scientific and cultural knowledge as on military expertise and technology. From General George S. Patton learning the hard way that the desert is not always hot to the challenges of constructing a scientific research base under the Arctic ice to the sheer implausibility of modeling Martian environments on Earth, Gretchen Heefner takes us on a wry expedition into the extremes and introduces us to the people who have shaped our insight into these extraordinary environments. Even decades after the first manned space flight plans for human space exploration and extraplanetary colonization are still based on what we know about stark habitats on Earth. An entertaining survey of the relationship between environmental history and military might, *Sand, Snow, and Stardust* also serves as a warning about the further transformation of the planet, whether through desertification, melting ice caps, or attempts to escape it entirely.

The Fiber Bundle Ferenc Kun, Alex Hansen, Purusattam Ray, Srutarshi Pradhan, 2022-01-10 **Proceedings of the IRE.** Institute of Radio Engineers, 1960 *Meteorological Tsunamis: The U.S. East Coast and Other Coastal Regions* Ivica Vilibić, Sebastian Monserrat, Alexander B. Rabinovich, 2014-11-16 The book encompasses a set of papers on meteorological tsunamis covering various aspects of this rare but potentially destructive multiresonant phenomenon. Altogether an editorial and 15 contributions are part of this book; eight of the contributions deal with different aspects of meteotsunamis along the U.S. East Coast and in the region of the Great Lakes, including one paper introducing a new methodology in meteotsunami research. Seven more papers are documenting meteotsunamis in various coastal areas of the world's oceans. All continents except Antarctica have been covered, with the authors representing 11 countries. Previously Published in *Natural Hazards* Volume 74 No. 1 2014 **Machine Learning under Resource Constraints - Discovery in Physics** Katharina Morik, Wolfgang Rhode, 2022-12-31 *Machine Learning under Resource Constraints* addresses novel machine learning algorithms that are challenged by high throughput data, high dimensions, or by complex structures of the data in three volumes. Resource constraints are given by the relation between the demands for processing the data and the capacity of the computing machinery. The resources are runtime, memory, communication, and energy. Hence, modern computer architectures play a significant role. Novel machine learning algorithms are optimized with regard to minimal resource consumption. Moreover, learned predictions are executed on diverse architectures to save resources. It provides a comprehensive overview of the novel approaches to machine learning research that consider resource constraints as well as the application of the described methods in various domains of science and engineering. Volume 2 covers machine learning for knowledge discovery in particle and astroparticle physics. Their instruments, e.g., particle detectors or telescopes, gather petabytes of data. Here, machine learning is necessary not only to process the vast amounts of data and to detect the relevant examples efficiently but also as part of the knowledge discovery process itself. The physical knowledge is encoded in simulations that are used to train the machine learning models. At the same time, the interpretation of the learned models serves to expand the



physical knowledge This results in a cycle of theory enhancement supported by machine learning

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