

Monday 20 May 2013 – Afternoon

AS GCE PHYSICS A

G481/01 Mechanics

Candidates answer on the Question Paper.

OCR supplied materials:

- Data, Formulae and Relationships Booklet (sent with general stationery)

Other materials required:

- Electronic calculator
- Protractor
- Ruler (cm/mm)

Duration: 1 hour



Candidate forename						Candidate surname					
Centre number						Candidate number					

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- You may use an electronic calculator.
- You are advised to show all the steps in any calculations.



Where you see this icon you will be awarded marks for the quality of written communication in your answer.

This means for example you should:

- ensure that text is legible and that spelling, punctuation and grammar are accurate so that meaning is clear;
 - organise information clearly and coherently, using specialist vocabulary when appropriate.
- This document consists of **16** pages. Any blank pages are indicated.

Ocr G481 June 2013 Question Paper

Ronald Mazorodze, Michael J. Reiss



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Cognitive and Metacognitive Problem-Solving Strategies in Post-16 Physics Ronald Mazorodze, Michael J.

Reiss, 2019-09-20 This book reports on a study on physics problem solving in real classrooms situations Problem solving plays a pivotal role in the physics curriculum at all levels However physics students performance in problem solving all too often remains limited to basic routine problems with evidence of poor performance in solving problems that go beyond equation retrieval and substitution Adopting an action research methodology the study bridges the research practical divide by explicitly teaching physics problem solving strategies through collaborative group problem solving sessions embedded within the curriculum Data were collected using external assessments and video recordings of individual and collaborative group problem solving sessions by 16 18 year olds The analysis revealed a positive shift in the students problem solving patterns both at group and individual level Students demonstrated a deliberate well planned deployment of the taught strategies The marked positive shifts in collaborative competences cognitive competences metacognitive processing and increased self efficacy are positively correlated with attainment in problem solving in physics However this shift proved to be due to different mechanisms triggered in the different students

Social Networking and Education

Tomayess Issa, Pedro Isaias, Piet Kommers, 2015-10-03 The present work is intended to assist academics researchers and proponents of online learning and teaching Academics will be able to share the findings presented in this book and the Social Networking and Education Model SNEM with their students i e Masters and PhD It is envisaged that this book will assist researchers and anyone interested in online learning to understand the opportunities and risks associated with the use of Social Networking in the education sector and assist them to implement SN by means of the new SNEM model The reader will benefit from our examinations of the risks and opportunities associated with the use of Social Networking in the education sector in various regions around the world Asia Pacific Europe Mediterranean America Middle East and the Caribbean In addition a Social Networking and Education Model SNEM will be developed to promote and implement Social Networking in the education sector

An Introduction to Immunocytochemistry

Julia M. Polak, Susan Van Noorden, 1987 This work gives a concise exposition of the different immunocytochemical methods for identifying tissue constituents It discusses ways of preparing tissues according to the antigen to be localized and most commonly used methods sources of error and nonspecificity and techniques for recording results photographically

Data-Intensive Computing

Ian Gorton, Deborah K. Gracio, 2012-10-29 The world is awash with digital data from social networks blogs business science and engineering Data intensive computing facilitates understanding of complex problems that must process massive amounts of data Through the development of new classes of software algorithms and hardware data intensive applications can provide timely and meaningful analytical results in response to exponentially growing data complexity and associated analysis requirements This emerging area brings many

challenges that are different from traditional high performance computing This reference for computing professionals and researchers describes the dimensions of the field the key challenges the state of the art and the characteristics of likely approaches that future data intensive problems will require Chapters cover general principles and methods for designing such systems and for managing and analyzing the big data sets of today that live in the cloud and describe example applications in bioinformatics and cybersecurity that illustrate these principles in practice

Quantum Mechanics Julian Schwinger,2013-06-29 A unique legacy these lecture notes of Schwinger s course held at the University of California at Los Angeles were carefully edited by his former collaborator Berthold Georg Englert and constitute both a self contained textbook on quantum mechanics and an indispensable source of reference on this fundamental subject by one of the foremost thinkers of twentieth century physics

Verse and Translation Robert William Cumberland,1925

Safety in Science Education Great Britain. Dept. for Education and Employment,Great Britain,1996-01-01

Basic Organic Stereochemistry Ernest L. Eliel,Samuel H. Wilen,Michael P. Doyle,2001-04-11 A Practical Introduction to Stereochemistry Stereoisomers are compounds with the same chemical formula and connectivity but with different arrangements of their atoms in 3 dimensional space Stereochemistry encompasses the study of stereoisomers and their properties Despite having an identical chemical formula stereoisomers can have drastically different biological medicinal and chemical properties Basic Organic Stereochemistry explains in clear concise terms the concepts and properties of stereoisomers Ideal both as a text for advanced undergraduate or graduate students and as a handy guide for researchers in industry this superb text covers Polarimetry and optical rotation Internal coordinates configuration and conformation Nature of stereoisomers Barriers between stereoisomers and residual stereoisomers Symmetry operators and symmetry point groups Properties of stereoisomers and stereoisomer discrimination Separation of stereoisomers resolution and racemization Suitable for students in organic and biological chemistry Basic Organic Stereochemistry is unparalleled as a convenient text

Greek Tragedy Aeschylus,Euripides,Sophocles,2004-08-26 Agememnon is the first part of the Aeschylus s Orestian trilogy in which the leader of the Greek army returns from the Trojan war to be murdered by his treacherous wife Clytemnestra In Sophocles Oedipus Rex the king sets out to uncover the cause of the plague that has struck his city only to discover the devastating truth about his relationship with his mother and his father Medea is the terrible story of a woman s bloody revenge on her adulterous husband through the murder of her own children

Constitutional Conflicts in Contemporary Malaysia HP Lee,2017-01-19 In this book HP Lee explores how the separation of powers doctrine in Malaysia has been adversely affected by a number of major constitutional conflicts among the various important organs of government The author first analyses the struggle by parliament for supremacy over the Malay Rulers or Sultans by expunging the need for the royal assent to the enactment of legislation and removing royal immunities Lee then turns to the contemporary role of the Malay Rulers and the reasons for the perceived rejuvenation of these Malay Rulers The book goes on to examine the series of controversies and

scandals which have plagued the judiciary since the tumultuous judiciary crisis of 1988 and the efficacy of the reforms which have been introduced to restore public confidence in the judiciary These conflicts and a number of statutory enactments are analysed to determine their impact on the state of constitutionalism in Malaysia The book concludes with the author's thoughts on the trajectory of constitutional development in Malaysia

Difference Equations, Special Functions and Orthogonal Polynomials Saber Elaydi, 2007 This volume contains talks given at a joint meeting of three communities working in the fields of difference equations special functions and applications ISDE OPSFA and SIDE The articles reflect the diversity of the topics in the meeting but have difference equations as common thread Articles cover topics in difference equations discrete dynamical systems special functions orthogonal polynomials symmetries and integrable difference equations

Judicial Activism in Comparative Perspective Kenneth M. Holland, 1991-06-18 The theme of this book is judicial activism in industrialized democracies with a chapter on the changing political roles of the courts in the Soviet Union Eleven contributors describe the extent to which the highest courts in their country of expertise have embraced the making of public policy

May Day for Justice Mohamed Salleh bin Abas, 1989

The Great Decision Cliff Sloan, David McKean, 2009-03-03 Tells the riveting story of Marshall and of the landmark court case Marbury v Madison through which he empowered the Supreme Court and transformed the idea of the separation of powers into a working blueprint for our modern state

Landmarks in the Law Alfred Denning, 1984-10-08 Written in Lord Denning's familiar vivid staccato style Landmarks in the Law discusses cases and characters whose names will be known to all readers grouped together under headings such as High Treason Freedom of the Press and Murder Thus for example the chapter on High Treason tells the stories of Sir Walter Raleigh Sir Roger Casement and William Joyce three very different cases the first occurring nearly 350 years before the last but each one raising constitutional issues of the greatest importance

Constitutional Government in India M.V.Pylee, 2003 Part I Introductory part Ii The Growth Of Constitutionalism In Indiapart Iii Preamble Territory And Citizenshippart Iv Fundamental Rights And Directive Principlepart V The Government Of The Unionpart Vi The Machinery Of Government In The Statespart Vii The Federal Systempart Viii Miscellaneous Provisions

Supreme Power: Franklin Roosevelt vs. the Supreme Court Jeff Shesol, 2011-03-14 A stunning work of history Doris Kearns Goodwin author of No Ordinary Time and Team of Rivals Beginning in 1935 the Supreme Court's conservative majority left much of FDR's agenda in ruins The pillars of the New Deal fell in short succession It was not just the New Deal but democracy itself that stood on trial In February 1937 Roosevelt struck back with an audacious plan to expand the Court to fifteen justices and to pack the new seats with liberals who shared his belief in a living Constitution

The Struggle for Simplicity in the Law Paul Rishworth, 1997 A collection of 17 essays written to honour Lord Cooke of Thorndon upon his retirement as President of the New Zealand Court of Appeal In six parts The Art of the Judge Private Law The Treaty and Indigenous Rights Administrative Law International Perspectives and Fundamental Rights The contributors are legal personalities from New Zealand and the

Commonwealth *Douglas of the Supreme Court* William Orville Douglas, 1973 La tarea de enfrentar a la pobreza la salud y los derechos humanos no puede ser llevada a cabo por una sola institucion global y requiere una accin rigurosa interdisciplinaria y coordinada Es por eso que la OMS y el ACNUDH han trabajado junto a un rango de interesados para desarrollar esta gua Se pretende que sea una herramienta para el diseo implementacin y seguimiento de una estrategia para la reduccion de la pobreza que siga una aproximacin basada en los derechos humanos Contiene una gua prctica y sugerencias as como ejemplos de buenas practicas tomados alrededor del mundo *The Snail and the Ginger Beer* Matthew Chapman, 2010 On an August evening in 1928 May Donoghue entered a caf in Paisley The circumstances of her visit made legal history A ginger beer was ordered for Mrs Donoghue who famously complained that to her surprise and shock a decomposed snail had tumbled from the bottle into her glass Mrs Donoghue sued for the nervous shock she claimed to have suffered as a result The question whether she had a case in law against the manufacturer of the ginger beer was argued as far as the House of Lords It is hard to overstate the importance of the decision in *Donoghue v Stevenson* It represents perhaps the greatest contribution made by English and Scottish lawyers to the development of the common law This case made it clear that even without a contract between the parties a duty of care is owed by A to take reasonable care to avoid acts or omissions which could reasonably be foreseen as likely to cause injury to his neighbour B This concept developed by the great jurist Lord Atkin has become known by the universal shorthand the neighbour principle Who Lord Atkin asked rhetorically is in law my neighbour This case provides the answer This book tells the full story and provides vivid biographical sketches of the protagonists and of the great lawyers who were involved in the case It sets the case in its historical context and re evaluates the evidence he constitutional importance of the case is also dealt with the blow it struck for a moral approach to the law which departed from a rigid doctrine of precedent Finally the book investigates the influence of *Donoghue v Stevenson* across the common law world from the USA to the countries of what is now the Commonwealth

FLMI Level 1 Certificate in Insurance Fundamentals Insurance Principles. LOMA 280 — Principles of Insurance. Great for New Employees. Online. Supervised Exam. Duration: 16+ hours to complete. OR. LOMA 281 — ... LOMA At LOMA, our purpose is to advance the life insurance and financial services ... Recruiting, assessment, fraud prevention, remote work, benchmarking—we ... What are the benefits of getting a LOMA insurance exam ... Jul 22, 2017 — This certification can lead to better job opportunities and higher earning potential. It also helps you stay updated with industry knowledge and ... Life Office Management Association LOMA offers an employee training and development program used by the majority of American life insurance companies, and by life insurance companies in over 70 ... LOMA 280 INSURANCE EXAM Flashcards Study Flashcards On LOMA 280 INSURANCE EXAM at Cram.com. Quickly memorize the terms, phrases and much more. Cram.com makes it easy to get the grade you ... LOMA Courses | INSTITUTE OF FINANCIAL STUDIES FLMI: Teaches

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