

## G.C.E. (A/L) Practice Test - 2024

Physics I

01

E

I

Grade 13

2 Hours

## Instructions:

- Answer all the Questions.
- Write down your index number in the space provided in the answer sheet.
- Read the instructions given on the back of the answer sheet carefully.
- In each of the questions from 1 to 50, pick one of the alternatives from (1), (2), (3), (4) and (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (X) in accordance with the instructions given on the back of the answer sheet.

Use of calculators is not allowed.

$$g = 10 \text{ Nkg}^{-1}$$

01. What is correct among the following statements?

- 1) The dimension of tangential acceleration is  $T^2$ .
- 2) The dimension of angular acceleration is  $T^{-2}$ .
- 3) The dimension of angular frequency is  $T^{-2}$ .
- 4) The dimension of angular momentum is  $MLT^{-1}$ .
- 5) No dimension for radioactive decay constant.

02. What is the most suitable measuring instrument among the following, to measure the diameter of a thin wire, the thickness of a microscopic slide and the thickness of an  $A_4$  sheet?

- 1) The meter scale
- 2) The vernier caliper
- 3) The micrometer screw gauge
- 4) The spherometer
- 5) The travelling microscope

03. What is the maximum length among the following values?

- 1) 0.1 mm
- 2) 10  $\mu\text{m}$
- 3)  $10^3 \text{ nm}$
- 4)  $10^{10} \text{ pm}$
- 5)  $10^3 \text{ cm}$

04. It is observed six nodes in a stationary wave which is formed in a stretched string. The number of antinodes in the wave is,

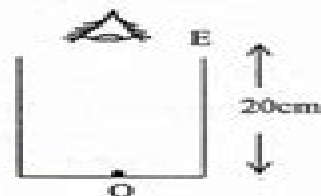
- 1) 4
- 2) 5
- 3) 6
- 4) 7
- 5) 8

05. A student makes a simple microscope using a converging lens. The least distance of distinct vision of him is 25 cm. The maximum magnifying power that he can gain is 5. The focal length of the lens is,

- 1) 4 cm
- 2) 5 cm
- 3) 6 cm
- 4) 6.25 cm
- 5) 10 cm

06. A point O at the bottom of a beaker is viewed from a point E, 20 cm above. (Look at the figure) When a transparent liquid is poured in to the beaker to a height of 13.5 cm, the point O is viewed 16.5 cm below E. The refractive index of the liquid is,

- 1) 1.25
- 2) 1.33
- 3) 1.35
- 4) 1.36
- 5) 1.40



# Oct Nov 2014 Extended Ppr 3 Phy

**Vikrant Bhateja, Maitreyee Dey, Milan  
Simic**



### **Oct Nov 2014 Extended Ppr 3 Phy:**

System Level ESD Co-Design Charvaka Duvvury, Harald Gossner, 2017-05-05 An effective and cost efficient protection of electronic system against ESD stress pulses specified by IEC 61000 4 2 is paramount for any system design This pioneering book presents the collective knowledge of system designers and system testing experts and state of the art techniques for achieving efficient system level ESD protection with minimum impact on the system performance All categories of system failures ranging from hard to soft types are considered to review simulation and tool applications that can be used The principal focus of System Level ESD Co Design is defining and establishing the importance of co design efforts from both IC supplier and system builder perspectives ESD designers often face challenges in meeting customers system level ESD requirements and therefore a clear understanding of the techniques presented here will facilitate effective simulation approaches leading to better solutions without compromising system performance With contributions from Robert Ashton Jeffrey Dunnihoo Micheal Hopkins Pratik Maheshwari David Pomerence Wolfgang Reinprecht and Matti Usumaki readers benefit from hands on experience and in depth knowledge in topics ranging from ESD design and the physics of system ESD phenomena to tools and techniques to address soft failures and strategies to design ESD robust systems that include mobile and automotive applications The first dedicated resource to system level ESD co design this is an essential reference for industry ESD designers system builders IC suppliers and customers and also Original Equipment Manufacturers OEMs Key features Clarifies the concept of system level ESD protection Introduces a co design approach for ESD robust systems Details soft and hard ESD fail mechanisms Detailed protection strategies for both mobile and automotive applications Explains simulation tools and methodology for system level ESD co design and overviews available test methods and standards Highlights economic benefits of system ESD co design

*Handbook of the Politics of the Arctic* Leif Christian Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries

The Subjectivities and Objectivities of Peer Review Daniel Ucko, 2024-12-16 What do we want Evidence based science When do we want it After peer review We have come to think of peer review as the stamp of quality that separates real results from mere conjecture but a look under the hood reveals that the participants inside of peer review are far from objective This book reclaims subjectivity and affirms a social mode of objectivity which prevents peer review from overpromising and underdelivering in its vital role in knowledge production

**Bond Pricing and Yield Curve Modeling** Riccardo Rebonato, 2018-06-07 Rebonato provides an authoritative clear and up to date explanation of the cutting edge innovations in affine modeling for government bonds and provides readers with the precise tools to develop their own models This book combines precise

theory with up to date empirical evidence to build with the minimum mathematical sophistication required for the task a critical understanding of what drives the government bond market

**MARE-WINT** Wiesław Ostachowicz, Malcolm McGugan, Jens-Uwe Schröder-Hinrichs, Marcin Luczak, 2016-08-30 This book provides a holistic interdisciplinary overview of offshore wind energy and is a must read for advanced researchers Topics from the design and analysis of future turbines to the decommissioning of wind farms are covered The scope of the work ranges from analytical numerical and experimental advancements in structural and fluid mechanics to novel developments in risk safety reliability engineering for offshore wind The core objective of the current work is to make offshore wind energy more competitive by improving the reliability and operations and maintenance O M strategies of wind turbines The research was carried out under the auspices of the EU funded project MARE WINT The project provided a unique opportunity for a group of researchers to work closely together undergo multidisciplinary doctoral training and conduct research in the area of offshore wind energy generation Contributions from expert external authors are also included and the complete work seeks to bridge the gap between research and a rapidly evolving industry

**Intelligent Computing and Automation** Vikrant Bhateja, Maitreyee Dey, Milan Simic, 2025-03-28 The book presents the proceedings of the 12th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2024 held at Intelligent Systems Research Group ISRG London Metropolitan University London United Kingdom during June 6 7 2024 Researchers scientists engineers and practitioners exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines in the book This book is divided into four volumes It covers broad areas of information and decision sciences with papers exploring both the theoretical and practical aspects of data intensive computing data mining evolutionary computation knowledge management and networks sensor networks signal processing wireless networks protocols and architectures This book is a valuable resource for postgraduate students in various engineering disciplines

**The Economics of Open Access** Thomas Eger, Marc Scheufen, 2018-06-29 Addressing the recent debate on how the future of academic publishing might look in a purely digital environment this book analyzes the experiences of researchers with as well as attitudes towards Open Access OA publishing Drawing on a unique in depth survey with more than 10 000 respondents from 25 countries Thomas Eger and Marc Scheufen discuss their findings in the light of recent policy attempts which have been trying to foster OA revealing considerable shortcomings and lack of knowledge on fundamental features of the academic publishing market

**Big Scientific Data Management** Jianhui Li, Xiaofeng Meng, Ying Zhang, Wenjuan Cui, Zhihui Du, 2019-08-06 This book constitutes the refereed proceedings of the First International Conference on Big Scientific Data Management BigSDM 2018 held in Beijing Greece in November December 2018 The 24 full papers presented together with 7 short papers were carefully reviewed and selected from 86 submissions The topics involved application cases in the big scientific data management paradigms for enhancing scientific discovery through big data data management

challenges posed by big scientific data machine learning methods to facilitate scientific discovery science platforms and storage systems for large scale scientific applications data cleansing and quality assurance of science data and data policies

**Towards a Theory of Spacetime Theories** Dennis Lehmkuhl, Gregor Schiemann, Erhard Scholz, 2017-01-05 This contributed volume is the result of a July 2010 workshop at the University of Wuppertal Interdisciplinary Centre for Science and Technology Studies which brought together world wide experts from physics philosophy and history in order to address a set of questions first posed in the 1950s How do we compare spacetime theories How do we judge objectively which is the best theory Is there even a unique answer to this question The goal of the workshop and of this book is to contribute to the development of a meta theory of spacetime theories Such a meta theory would reveal insights about specific spacetime theories by distilling their essential similarities and differences deliver a framework for a class of theories that could be helpful as a blueprint to build other meta theories and provide a higher level viewpoint for judging which theory most accurately describes nature But rather than drawing a map in broad strokes the focus is on particularly rich regions in the space of spacetime theories This work will be of interest to physicists as well as philosophers and historians of science working with or interested in General Relativity and or Space Time and Gravitation more generally **From Physics to**

**Econophysics and Back: Methods and Insights** Siew Ann Cheong, Takayuki Mizuno, Wei-Xing Zhou, Gabjin Oh, Anirban Chakraborti, Damien Challet, 2022-07-06 Collected Papers. Volume XIII Florentin Smarandache, 2022-09-15 This thirteenth volume of Collected Papers is an eclectic tome of 88 papers in various fields of sciences such as astronomy biology calculus economics education and administration game theory geometry graph theory information fusion decision making instantaneous physics quantum physics neutrosophic logic and set non Euclidean geometry number theory paradoxes philosophy of science scientific research methods statistics and others structured in 17 chapters Neutrosophic Theory and Applications Neutrosophic Algebra Fuzzy Soft Sets Neutrosophic Sets Hypersoft Sets Neutrosophic Semigroups Neutrosophic Graphs Superhypergraphs Plithogeny Information Fusion Statistics Decision Making Extenics Instantaneous Physics Paradoxism Mathematica Miscellanea comprising 965 pages published between 2005 2022 in different scientific journals by the author alone or in collaboration with the following 110 co authors alphabetically ordered from 26 countries Abdullallah Gamal Sania Afzal Firoz Ahmad Muhammad Akram Sheriful Alam Ali Hamza Ali H M Al Obaidi Madeleine Al Tahan Assia Bakali Atiqe Ur Rahman Sukanto Bhattacharya Bilal Hadjadji Robert N Boyd Willem K M Brauers Umit Cali Youcef Chibani Victor Christianto Chunxin Bo Shyamal Dalapati Mario Dalc n Arup Kumar Das Elham Davneshvar Bijan Davvaz Irfan Deli Muhammet Deveci Mamouni Dhar R Dhavaseelan Balasubramanian Elavarasan Sara Farooq Haipeng Wang Ugur Halden Le Hoang Son Hongnian Yu Qays Hatem Imran Mayas Ismail Saeid Jafari Jun Ye Ilanthenral Kandasamy W B Vasanth Kandasamy Darjan Karaba evi Abdullah Karg n Vasilios N Katsikis Nour Eldeen M Khalifa Madad Khan M Khoshnevisan Tapan Kumar Roy Pinaki Majumdar Sreepurna Malakar Masoud Ghods Minghao Hu Mingming Chen Mohamed

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*Neural Information Processing* Biao Luo, Long Cheng, Zheng-Guang Wu, Hongyi Li, Chaojie Li, 2023-11-29 The nine volume set constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing ICONIP 2023 held in Changsha China in November 2023 The 1274 papers presented in the proceedings set were carefully reviewed and selected from 652 submissions The ICONIP conference aims to provide a leading international forum for researchers scientists and industry professionals who are working in neuroscience neural networks deep learning and related fields to share their new ideas progress and achievements

**Inventing Atmospheric Science** James Rodger Fleming, 2016-02-05 This big picture history of atmospheric research examines the first six decades of the twentieth century from the dawn of applied fluid dynamics to the emergence by 1960 of the interdisciplinary atmospheric sciences Using newly available archival sources it documents the work of three interconnected generations of scientists Vilhelm Bjerknes Carl Gustaf Rossby and Harry Wexler whose aspirations were fueled by new theoretical insights pressing societal needs and expanded technological capabilities Radio radar aviation nuclear tracers digital computing sounding rockets and satellites provided new ways to measure and study the global atmosphere a huge and dauntingly complex system Bjerknes brought us a fundamental circulation theorem and founded the Bergen school of weather forecasting Rossby established the graduate schools of meteorology at M I T Chicago and Stockholm which focused on upper air dynamics and after 1947 on atmospheric environmental issues and Wexler brought all the new technologies into the U S Weather Bureau and with his colleague Jule Charney prepared the foundations for the emergence of the interdisciplinary atmospheric sciences This history weaves together cold war studies military history the rise of government research and development and aviation and aeronautics with a nascent global awareness It is a fascinating history of something we all experience the weather told through compelling historical characters Provided by publisher

**Collected Papers. Volume X** Florentin Smarandache, 2022-06-01 This tenth volume of Collected Papers includes 86 papers in English and Spanish languages comprising 972 pages written between 2014 2022 by the author alone or in collaboration with the following 105 co authors alphabetically ordered from 26 countries Abu Su an Ali Hassan Ali Safaa Sadiq Anirudha Ghosh Assia Bakali Atiqe Ur

Rahman Laura Bogdan Willem K M Brauers Erick Gonz lez Caballero Fausto Cavallaro Gavril Calefariu T Chalapathi Victor Christianto Mihaela Colhon Sergiu Boris Cononovici Mamoni Dhar Irfan Deli Rebeca Escobar Jara Alexandru Gal N Gandotra Sudipta Gayen Vassilis C Gerogiannis Noel Batista Hern ndez Hongnian Yu Hongbo Wang Mihaela Iliescu F Nirmala Irudayam Sripathi Jha Darjan Karaba evi T Katican Bakhtawar Ali Khan Hina Khan Volodymyr Krasnoholovets R Kiran Kumar Manoranjan Kumar Singh Ranjan Kumar M Lathamaheswari Yasar Mahmood Nivetha Martin Adrian M rgean Octavian Melinte Mingcong Deng Marcel Migdalovici Monika Moga Sana Moin Mohamed Abdel Basset Mohamed Elhoseny Rehab Mohamed Mohamed Talea Kalyan Mondal Muhammad Aslam Muhammad Aslam Malik Muhammad Ihsan Muhammad Naveed Jafar Muhammad Rayees Ahmad Muhammad Saeed Muhammad Saqlain Muhammad Shabir Mujahid Abbas Mumtaz Ali Radu I Munteanu Ghulam Murtaza Munazza Naz Tahsin Oner Gabrijela Popovi Surapati Pramanik R Priya S P Priyadharshini Midha Qayyum Quang Thinh Bui Shazia Rana Akbara Rezaei Jes s Estupi n Ricardo R dvan Sahin Saeeda Mirvakili Said Broumi A A Salama Flavius Aurelian S rbu Ganeshsree Selvachandran Javid Shabbir Shio Gai Quek Son Hoang Le Florentin Smarandache Dragi a Stanujki S Sudha Taha Yasin Ozturk Zaigham Tahir The Houw Iong Ayse Topal Alptekin Uluta Maikel Yelandi Leyva V zquez Rizha Vitania Luige Vl d reanu Victor Vl d reanu tefan Vl du escu J Vimala Dan Valeriu Voinea Adem Yolcu Yongfei Feng Abd El Nasser H Zaied Edmundas Kazimieras Zavadskas      **Advances in**

**Chromatography** Nelu Grinberg, Peter W. Carr, 2019-02-07 For more than five decades scientists and researchers have relied on the Advances in Chromatography series for the most up to date information on a wide range of developments in chromatographic methods and applications The clear presentation of topics and vivid illustrations for which this series has become known makes the material accessible and engaging to analytical biochemical organic polymer and pharmaceutical chemists at all levels of technical skill Key Features Includes a chapter dedicated to Izaak Maurits Kolthoff offering a unique look at his non professional life as well as his impact and legacy in Analytical Chemistry Discusses recent advances in two dimensional liquid chromatography for the characterization of monoclonal antibodies and other therapeutic proteins Reviews solvation processes methodologies of their measurement and parameters influenced solvation Explores recent advances in TLC analysis of natural colorings determination of synthetic dyes and determination of EU permitted natural colors in foods Offers comprehensive and critical insights on the key aspects of CE MS analysis of intact proteins      **The Founders of**

**Seismology** Charles Davison, 2014-04-03 This book first published in 1927 provides a historical study regarding the origins of seismology and the key figures in its development      The Source of All Things Reinhard Friedl, 2025-08-22 In the tradition of Henry Marsh s Do No Harm Reinhard Friedl s The Source of All Things is a heart surgeon s personal investigation of the human heart moving from his riveting clinical experiences to a more poetic understanding of its workings The heart is our most important organ Yet despite that it has not changed since the appearance of Homo sapiens 300 000 years ago it is also our most mysterious In most human cultures it is seen as the source of love sympathy joy courage strength and wisdom What

if the heart could answer questions neurosciences can't begin to. Having witnessed the extraordinary complexity and unpredictability of human hearts in the operating theatre, each one individual like a fingerprint, heart surgeon Reinhard Friedl looked again at this primitive pump to reconcile it with his experiences from thousands of heart operations. In this book he presents findings from various scientific disciplines such as secret connections of the heart and brain and their influence on emotions and consciousness. He reveals the miracle that is the heart that we speak about so often yet is strangely foreign to many human beings. Full of compelling patient stories, *The Source of All Things* ends with a plea that we recognize the heart's wisdom and adopt a more heart-centered way of living leading to greater health and more joy.

**Neutrosophic Sets and Systems** Florentin Smarandache, Said Broumi, *Neutrosophic Sets and Systems* has been created for publications on advanced studies in neutrosophy: neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra, geometry, topology, etc. *Neutrosophic Sets and Systems: An International Book Series in Information Science and Engineering, vol. 21 / 2018* Florentin Smarandache, Said Broumi, 2018. *Neutrosophic Sets and Systems* has been created for publications on advanced studies in neutrosophy: neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra, geometry, topology, etc.

**Solar System Planets and Exoplanets** Joseph Bevelacqua, 2021-07-07. *Solar System Planets and Exoplanets* provides a current viewpoint of planetary systems. The solar system's planets and exoplanets are addressed in an overview manner and specific space probe data are used to provide a current state of knowledge of Venus and Mars. Recent Mars data and associated observations are addressed in several chapters. Of particular interest are data that suggest the possibility that life could have existed on the planet's surface during its past when Mars' atmosphere was wetter and denser. The search for life on Mars is one of the main objectives of space missions and it is an ongoing theme of this book. Key to the existence of life is the evolution of the radiation output of the Sun that is discussed and projected into the future. Space probe data related to the Asteroid Belt is also presented. Technological advances in terms of operating aircraft on Mars and propulsion systems provide useful commentary regarding future innovations that will enhance upcoming space missions and the search for life.



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