



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – MATHEMATICS

THIRD SEMESTER – NOVEMBER 2013

PH 3104/3100 - PHYSICS FOR MATHEMATICS - I

Date : 16/11/2013

Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

PART A

Answer **ALL** questions:

10 x 2 = 20

1. Distinguish between distance and displacement.
2. What are generalized coordinates?
3. State Newton's law of gravitation.
4. Define escape velocity.
5. State Hooke's law of elasticity.
6. Define surface tension of a liquid.
7. Draw the circuit diagram of Inverting Operational amplifier.
8. Write a note about electronic counters.
9. State the postulates of special theory of relativity.
10. Define Inertial and Non Inertial Frames of reference.

PART B

Answer any **FOUR** questions:

4 x 7.5 = 30

11. Explain distance time graph and velocity time graph for a moving object.
12. a) State all the three Kepler's laws of planetary motion. (6)
b) Define parking orbit of a satellite. (1.5)
13. Derive an expression for the energy stored in a stretched wire.
14. Explain Op-amp as i) summing amplifier and ii) difference amplifier.
15. Derive Einstein's mass energy relation.

PART C

Answer any **FOUR** questions:

4 x 12.5 = 50

16. Derive Lagrange's equation of motion from D'Alembert's principle.
17. Explain Boy's experiment to determine Universal gravitational constant G with a neat diagram.
18. With a neat sketch explain the Quinke's method to determine the surface tension of mercury.
19. Explain the working of i) Half adder and ii) Full adder with diagram and truth table. (4.5+4+4)
20. Describe Michelson-Morley experiment to disprove the theory of ether hypothesis and discuss the results obtained.

Mathematics 1 November 2013 Question Paper

**Joaquim Filipe, Michał
Śmiałek, Alexander Brodsky, Slimane
Hammoudi**

Mathematics 1 November 2013 Question Paper:

Cambridge IGCSE® Mathematics Core and Extended Coursebook Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book

Cambridge IGCSE® and O Level Additional Mathematics Coursebook Sue Pemberton, 2018-02-22 These resources have been created for the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 for first examination from 2020 This coursebook gives clear explanations of new mathematical concepts followed by exercises This allows students to practise the skills required and gain the confidence to apply them Classroom discussion exercises and extra challenge questions have been designed to deepen students understanding and stimulate interest in Mathematics Answers to coursebook questions are in the back of the book

Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015

Collected Papers, Volume VII Florentin Smarandache, 2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhai Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz

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Smarandache, 2022-11-01 This fourteenth volume of Collected Papers is an eclectic tome of 87 papers in Neutrosophics and other fields such as mathematics fuzzy sets intuitionistic fuzzy sets picture fuzzy sets information fusion robotics statistics or extensions comprising 936 pages published between 2008-2022 in different scientific journals or currently in press by the author alone or in collaboration with the following 99 co-authors alphabetically ordered from 26 countries Ahmed B Al Nafee Adesina Abdul Akeem Agboola Akbar Rezaei Shariful Alam Marina Alonso Fran Andujar Toshinori Asai Assia Bakali Azmat Hussain Daniela Baran Bijan Davvaz Bilal Hadjadji Carlos Diaz Bohorquez Robert N Boyd M Caldas Cenap Zel Pankaj Chauhan Victor Christianto Salvador Coll Shyamal Dalapati Irfan Deli Balasubramanian Elavarasan Fahad Alsharari Yonfei Feng Daniela Gf Rafael Rojas Gualdrn Haipeng Wang Hemant Kumar Gianey Noel Batista Hernandez Abdel Nasser Hussein Ibrahim M Hezam Ilanthenral Kandasamy WB Vasantha Kandasamy Muthusamy Karthika Nour Eldeen M Khalifa Madad Khan Kifayat Ullah Valeri Kroumov Tapan Kumar Roy Deepesh Kunwar Le Thi Nhung Pedro Lopez Mai Mohamed Manh Van Vu Miguel A Quiroz Martinez Marcel Migdalovici Kritika Mishra Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohammed Alshumrani Mohamed Loey Muhammad Akram Muhammad Shabir Mumtaz Ali Nassim Abbas Munazza Naz Ngan Thi Roan Nguyen Xuan Thao Rishwanth Mani Parimala Ion Ptra cu Surapati Pramanik Quek Shio Gai Qiang Guo Rajab Ali Borzooei Nimitha Rajesh Jes Estupi an Ricardo Juan Miguel Martinez Rubio Saeed Mirvakili Arsham Borumand Saeid Saeid Jafari Said Broumi Ahmed A Salama Nirmala Sawan Gheorghe Svoiu Ganeshsree Selvachandran Seok Zun Song Shahzaib Ashraf Jayant Singh Rajesh Singh Son Hoang Le Tahir Mahmood Kenta Takaya Mirela Teodorescu Ramalingam Udhayakumar Maikel Y Leyva Vzquez V Venkateswara Rao Luigi Voldreanu Victor Voldreanu Gabriela Voldreanu Michael Voskoglou Yaser Saber Yong Deng You He Youcef Chibani Young Bae Jun Wadei F Al Omeri Hongbo Wang Zayen Azzouz Omar *Cambridge International AS and A Level Mathematics: Pure Mathematics 2 and 3 Revised Edition Coursebook*

Hugh Neill, Douglas Quadling, Julian Gilbey, 2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 2 and 3 P2 and P3 units of Cambridge AS and A Level Mathematics 9709 Additional materials have been added to sections on logarithmic and exponential functions the derivative of $\tan x$ and vectors All of the review questions have been

updated to reflect changes in the style of questions asked in the course **Selected Papers from the 2018 41st International Conference on Telecommunications and Signal Processing (TSP)** Norbert Herencsar, Francesco Benedetto, Jorge Crichigno, 2019-07-01 This Special Issue contains a series of excellent research works on telecommunications and signal processing selected from the 2018 41st International Conference on Telecommunications and Signal Processing TSP which was held on July 4-6 2018 in Athens Greece The conference was organized in cooperation with the IEEE Region 8 Europe Middle East and Africa IEEE Greece Section IEEE Czechoslovakia Section and IEEE Czechoslovakia Section SP CAS COM Joint Chapter by seventeen universities from the Czech Republic Hungary Turkey Taiwan Japan Slovak Republic Spain Bulgaria France Slovenia Croatia and Poland for academics researchers and developers and serves as a premier international forum for the annual exchange and promotion of the latest advances in telecommunication technology and signal processing The aim of the conference is to bring together both novice and experienced scientists developers and specialists to meet new colleagues collect new ideas and establish new cooperation between research groups from universities research centers and private sectors worldwide This collection of 10 papers is highly recommended for researchers and believed to be interesting inspiring and motivating for readers in their further research **Cambridge International AS and A Level Mathematics: Statistics 2 Coursebook** Steve Dobbs, Jane Miller, Julian Gilbey, 2016-07-14 This popular series has been fully revised and updated to provide full coverage of the latest Cambridge AS and A Level Mathematics syllabus 9709 The renowned author team provide clear and detailed narrative explanations combined with a variety of new material and questions which have been added to all of the titles in the series to ensure that students continue to be engaged and have access to everything they need to master the mathematical skills required of the course Along with full revisions of the content this trusted and challenging series also has a refreshed appearance with each book continuing to cover one syllabus unit except P2 and P3 which are covered in a combined volume Publisher description *Enterprise Information Systems* Joaquim Filipe, Michał Śmiałek, Alexander Brodsky, Slimane Hammoudi, 2024-07-25 The two volume set LNBP 518 and 519 constitutes the refereed post conference proceedings of the 25th International Conference on Enterprise Information Systems ICEIS 2023 which was held in Prague Czech Republic during April 2023 The 30 full papers included in these proceedings were carefully reviewed and selected from a total of 213 submissions They are organized in topical sections as follows Part One Databases and Information Systems Integration Artificial Intelligence and Decision Support Systems and Information Systems Analysis and Specification Part Two Software Agents and Internet Computing Human Computer Interaction and Enterprise Architecture **Quality Assessment of Visual Content** Ke Gu, Hongyan Liu, Chengxu Zhou, 2022-10-19 This book provides readers with a comprehensive review of image quality assessment technology particularly applications on screen content images 3D synthesized images sonar images enhanced images light field images VR images and super resolution images It covers topics containing structural variation

analysis sparse reference information multiscale natural scene statistical analysis task and visual perception contour degradation measurement spatial angular measurement local and global assessment metrics and more All of the image quality assessment algorithms of this book have a high efficiency with better performance compared to other image quality assessment algorithms and the performance of these approaches mentioned above can be demonstrated by the results of experiments on real world images On the basis of this those interested in relevant fields can use the results obtained through these quality assessment algorithms for further image processing The goal of this book is to facilitate the use of these image quality assessment algorithms by engineers and scientists from various disciplines such as optics electronics math photography techniques and computation techniques The book can serve as a reference for graduate students who are interested in image quality assessment techniques for front line researchers practicing these methods and for domain experts working in this area or conducting related application development

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The SAGE Handbook of Research in International Education Mary Hayden,Jack Levy,Jeff Thompson,2015-10-13 The landscape of international education has changed significantly in the last ten years and our understanding of concepts such as international global and multicultural are being re evaluated Fully updated and revised and now including new contributions from research in South East Asia the Middle East China Japan Australasia and North America the new edition of this handbook analyses the origins interpretations and contributions of international education and explores key contemporary developments including internationalism in the context of teaching and learning leadership standards and quality in institutions and systems of education the promotion of internationalism in national systems This important collection of research is an essential resource for anyone involved in the practice and academic study of international education including researchers and teachers in universities governmental and private curriculum development agencies examination authorities administrators and teachers in schools

Peter Carr Gedenkschrift: Research Advances In Mathematical Finance Robert A Jarrow,Dilip B Madan,2023-11-10 This Gedenkschrift for Peter Carr our dear friend and colleague who suddenly left us on March 1 2022 was organized to honor the life and lasting contributions of Peter to Quantitative Finance A group of Peter s co authors and professional friends contributed chapters for this Gedenkschrift shortly after his passing The papers were received by September 15 2022 and some were presented at the Peter Carr Gedenkschrift Conference held at the Robert H Smith School of Business on

November 11 2022 The contributed papers cover a wide range of topics corresponding to the vast range of Peter s interests Each paper represents new research results in recognition of Peter s scholarly activities The book serves as an important marker for the research knowledge existing at the time of the Gedenkschrift s publication on a number of topics within quantitative finance It reflects the diverse interactions between mathematics and finance and illustrates for those interested the breadth and depth of this development The book also presents a collection of tributes to Peter from family and friends including those made at his Memorial Service on March 19 2022 The result is hopefully a more complete testament to a personal and professional life well lived and unexpectedly cut short

Mathematics and Transition to School Bob Perry,Amy MacDonald,Ann Gervasoni,2015-01-09 This edited book brings together for the first time an international collection of work focused on two important aspects of any young child s life learning mathematics and starting primary or elementary school The chapters take a variety of perspectives and integrate these two components in sometimes explicit and sometimes more subtle ways The key issues and themes explored in this book are the mathematical and other strengths that all participants in the transition to school bring to this period of a child s life the opportunities provided by transition to school for young children s mathematics learning the importance of partnerships among adults and among adults and children for effective school transitions and mathematics learning and teaching the critical impact of expectations on their mathematics learning as children start school the importance of providing children with meaningful challenging and relevant mathematical experiences throughout transition to school the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers the importance for the aspirations of children families communities educators and educational organisations to be recognised as legitimate and key determinants of actions experiences and successes in both transition to school and mathematics learning and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school In each chapter authors reflect on their work in the area of mathematics and transition to school place that work within the overall context of research in these fields predict the trajectory of this work in the future and consider the implications of the work both theoretically and practically

Microelectronics, Electromagnetics and Telecommunications Ganapati Panda,Suresh Chandra Satapathy,Birendra Biswal,Ramesh Bansal,2018-11-02 The book discusses the latest developments and outlines future trends in the fields of microelectronics electromagnetics and telecommunication It contains original research works presented at the International Conference on Microelectronics Electromagnetics and Telecommunication ICMEET 2018 organised by GVP College of Engineering A Andhra Pradesh India The respective papers were written by scientists research scholars and practitioners from leading universities engineering colleges and R D institutes from all over the world and share the latest breakthroughs in and promising solutions to the most important issues facing today s society

Knowledge and the City Francisco Javier Carrillo,Tan Yigitcanlar,Blanca García,Antti Lönnqvist,2014-08-01 This book underlines the growing

importance of knowledge for the competitiveness of cities and their regions Examining the role of knowledge in its economic socio cultural spatial and institutional forms for urban and regional development identifying the preconditions for innovative use of urban and regional knowledge assets and resources and developing new methods to evaluate the performance and potential of knowledge based urban and regional development the book provides an in depth and comprehensive understanding of both theoretical and practical aspects of knowledge based development and its implications and prospects for cities and regions

IGCSE Mer Merlyn ,2015-08-27 Buku IGCSE ini merupakan aplikasi dari pelajaran matematika yang berbasis di University of Cambridge Berisi kumpulan soal lengkap dengan kunci jawaban Memudahkan para siswa dalam menghadapi pelajaran matematika Semoga buku ini bisa menjadi jembatan bagi para siswa yang ingin menguasai mata pelajaran matematika dengan baik

Mathematical Intelligence Mubeen Junaid,2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we re actually good at mathematics There s so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn t ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It s familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself

Executive Function and Education Mariëtte Huizinga,Dieter Baeyens,Jacob A. Burack,2018-09-21 Executive function is an umbrella term for various cognitive processes that are central to goal directed behavior thoughts and emotions These processes are especially

important in novel or demanding situations which require a rapid and flexible adjustment of behavior to the changing demands of the environment The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child's social contexts especially the home and school Over the past decade the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting planning and organizing in academic success Accordingly in initiating this Research Topic and eBook our goal was to provide a forum for state of the art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators The contributors to this volume who hail from several different countries in Europe and North America have certainly accomplished this goal in their nuanced and cutting edge depictions of the complex links among various executive function components and educational success

Learning from Emergent Bilingual Latinx Learners in K-12 Pablo Ramirez, Christian Faltis, Ester De Jong, 2017-11-03 In this volume scholars researchers and teacher educators from across the United States present their latest findings regarding teacher education to develop meaningful learning experiences and meet the sociocultural linguistic and academic needs of Latino ELLs The book documents how teacher education programs guide teachers to engage in culturally and linguistically diverse academic contexts and sheds light on the variety of research based theoretical frameworks that inform teaching practices A unique contribution to the field *Learning from Emergent Bilingual Latinx Learners in K 12* provides innovative approaches for linking Latino school communities with teachers at a time when demographic shifts are considerably altering population trends in the K 12 educational system

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