

Mathematics & Statistics-I

Time : 2 Hrs.

October - 2010

Marks : 40

Q.1. (A) Attempt any ONE of the following :

(i) Evaluate : $\lim_{x \rightarrow 0} \frac{\cos 5x - \cos 11x}{x^2}$ (2)

(ii) Discuss the continuity of the function f defined as,

$$f(x) = 2x + 3, \text{ if } -1 \leq x \leq 2$$

$$= 6x - 1, \text{ if } 2 < x \leq 3,$$

at $x = 2$

(2)

(B) Attempt any ONE on the following :

(i) Evaluate : $\int \sin^2 3x \, dx$.

(ii) Evaluate : $\int \frac{1}{e^x + 5} \, dx$

(2)

(C) Attempt any ONE of the following :

(i) 'C' denotes the total cost of producing 'x' items. If the rate of change of C with respect to x is $(10x + 5)$ and the fixed cost is Rs. 600, show that the cost of producing 20 items is Rs. 2700. (4)

(ii) Solve the differential equation $(x - y^2x) \, dx - (y - x^2y) \, dy = 0$. Also find its particular solution if $y = 0$ when $x = 2$. (4)

Q.2. (A) Attempt any ONE of the following :

(i) Show that $y \sec x = \tan x + C$ is a solution of the differential equation $\frac{dy}{dx} + y \tan x = \sec x$. (2)

(ii) Form the differential equation by eliminating the arbitrary constants A and B from $y = Ax^2 + B$. (2)

(B) Attempt any ONE of the following :

(2)

(i) Find $\frac{dy}{dx}$, if $x^2 + y^2 = 3axy$.

(ii) Find $\frac{dy}{dx}$, if $y = \tan^{-1} \left(\frac{7x}{1-10x^2} \right)$

(4)

(C) Attempt any ONE of the following :

(i) Evaluate : $\int_0^1 \left(\frac{x}{\sqrt{4-x}} \right) \, dx$.

(ii) Evaluate : $\int_0^{\pi/2} \frac{1}{5+3 \cos x} \, dx$

(2)

Q.3. (A) Attempt any ONE of the following :

(i) Find $\frac{dy}{dx}$, if $y = \cos(x^2 e^x)$

(ii) Find $\frac{dy}{dx}$, if $y = \log_{10}(\sin x)$

(B) Attempt any ONE of the following :

(i) (a) Rewrite the following statement removing the connective 'or' and using the connective 'If ... then.....'. Mumbai is not in Maharashtra or Delhi is in China.

(b) Write the contrapositive of the statement — 'If it rains heavily then the trains stop working.'

(2)

(ii) Write the negations of the following statements without using the phrase 'It is false that' or 'It is not true that' :

(2)

(a) All politicians are honest.

(b) $(\neg p \rightarrow q) \wedge r$

(C) Attempt any ONE of the following :

(4)

(i) Evaluate : $\int \frac{\sec^2 x}{\sec^2 x - 2 \tan x + 1} \, dx$

(ii) Evaluate : $\int \cos^2 \sqrt{x} \, dx$

Hsc 2009 Mathematics Question Paper

Marcel A. Müller



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Peterson's Graduate Programs Programs in Mathematics 2011 Peterson's,2011-05-01 Peterson's Graduate Programs in Mathematics contains a wealth of information on colleges and universities that offer graduate work in Applied Mathematics Applied Statistics Biomathematics Biometry Biostatistics Computational Sciences Mathematical and Computational Finance Mathematics and Statistics The institutions listed include those in the United States Canada and abroad that are accredited by U S accrediting bodies Up to date information collected through Peterson's Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students degree requirements entrance requirements expenses financial support faculty research and unit head and application contact information Readers will find helpful links to in depth descriptions that offer additional detailed information about a specific program or department faculty members and their research and much more In addition there are valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies

Knowledge-building Karl Maton,Susan Hood,Suellen Shay,2015-10-08 Education and knowledge have never been more important to society yet research is segmented by approach methodology or topic Legitimation Code Theory or LCT extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework for research and practice that overcomes segmentalism This book shows how LCT can be used to build knowledge about education and society Comprising original papers by an international and multidisciplinary group of scholars Knowledge building offers the first primer in this fast growing approach Through case studies of major research projects Part I provides practical insights into how LCT can be used to build knowledge by enabling dialogue between theory and data in qualitative research bringing together quantitative and qualitative methodologies in mixed methods research relating theory and practice in praxis conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge building in education and beyond encompassing diverse subject areas including physics English cultural studies music and design educational sites schooling vocational education and higher education practices of research curriculum pedagogy and assessment both education and informal learning contexts such as museums and masonic lodges Carefully sequenced and interrelated these chapters form a coherent collection that gives a unique insight into one of the most thought provoking and innovative ways of building knowledge about knowledge building in education and society to have emerged this century This book is essential reading for all serious students and scholars of education sociology and linguistics

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Engineering Mathematics in Ship Design Cristiano Fragassa,Elizaldo Domingues Dos Santos,Nenad Djordjevic,2020-01-03 Engineering mathematics is a branch of applied

mathematics where mathematical methods and techniques are implemented for solving problems related to the engineering and industry. It also represents a multidisciplinary approach where theoretical and practical aspects are deeply merged with the aim at obtaining optimized solutions. In line with that, the present Special Issue Engineering Mathematics in Ship Design is focused in particular with the use of this sort of engineering science in the design of ships and vessels. Articles are welcome when applied science or computation science in ship design represent the core of the discussion. Education World, 2002

HSC Standard English Barry Spurr, Lloyd Cameron, 2009. This guide contains comprehensive summary and discussion of all 44 prescribed texts in the HSC Standard English course plus a list of key issues to consider in each chapter related to the relevant syllabus area, helpful advice on how to read different types of texts, plot outlines, character discussion and interpretations. **22nd European Symposium on Computer Aided Process Engineering**, 2012-12-10. Computer aided process engineering CAPE plays a key design and operations role in the process industries. This conference features presentations by CAPE specialists and addresses strategic planning, supply chain issues and the increasingly important area of sustainability audits. Experts collectively highlight the need for CAPE practitioners to embrace the three components of sustainable development: environmental, social and economic progress and the role of systematic and sophisticated CAPE tools in delivering these goals. Contributions from the international community of researchers and engineers using computing based methods in process engineering. Review of the latest developments in process systems engineering. Emphasis on a systems approach in tackling industrial and societal grand challenges. **Seismic Analysis and Retrofitting of Historical Buildings** Antonio Formisano, Michele D'amato, 2020-10-29. This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series; they are collections of at least ten articles all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area. Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact. *Assessing the Capitalist Peace* Gerald Schneider, Nils Petter Gleditsch, 2013-10-18. Researchers have recently reinvigorated the idea that key features associated with a capitalist organization of the economy render nation states internally and externally more peaceful. According to this adage, the contract intensity of capitalist societies and the openness of the economy are among the main attributes that drive these empirical relationships. Studies on the Capitalist Peace supplement the broadly received examinations on the role that economic integration in the form of trade and foreign direct investment play in the pacification of states. Some proponents of the peace through capitalism thesis controversially contend that this relationship supersedes prominent explanations like Democratic Peace, according to which democratic pairs of states face a reduced risk of conflict. This volume takes stock of this debate. Authors also evaluate the theoretical underpinnings of the relationship and offer an up to date idea history and

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Curriculum and Teaching Dialogue David J. Flinders,P. Bruce Uhrmacher,2013-01-01 Curriculum and Teaching Dialogue CTD is a publication of the American Association of Teaching and Curriculum AATC a national learned society for the scholarly field of teaching and curriculum The field includes those working on the theory design and evaluation of educational programs at large At the university level faculty members identified with this field are typically affiliated with the departments of curriculum and instruction teacher education educational foundations elementary education secondary education and higher education CTD promotes all analytical and interpretive approaches that are appropriate for the scholarly study of teaching and curriculum In fulfillment of this mission CTD addresses a range of issues across the broad fields of educational research and policy for all grade levels and types of educational programs

Financial Derivative and Energy Market Valuation Michael Mastro, PhD,2013-02-19 A road map for implementing quantitative financial models Financial Derivative and Energy Market Valuation brings the application of financial models to a higher level by helping readers capture the true behavior of energy markets and related financial derivatives The book provides readers with a range of statistical and quantitative techniques and demonstrates how to implement the presented concepts and methods in Matlab Featuring an unparalleled level of detail this unique work provides the underlying theory and various advanced topics without requiring a prior high level understanding of mathematics or finance In addition to a self contained treatment of applied topics such as modern Fourier based analysis and affine transforms Financial Derivative and Energy Market Valuation also Provides the derivation numerical implementation and documentation of the corresponding Matlab for each topic Extends seminal works developed over the last four decades to derive and utilize present day financial models Shows how to use applied methods such as fast Fourier transforms to generate statistical distributions for option pricing Includes all Matlab code for readers wishing to replicate the figures found throughout the book Thorough practical and easy to use Financial Derivative and Energy Market Valuation is a first rate guide for readers who want to learn how to use advanced numerical methods to implement and apply state of the art financial models The book is also ideal for graduate level courses in quantitative finance mathematical finance and financial engineering

Tubular Structures XII Z.Y. Shen,Y.Y. Chen,Xian-zhong Zhao,2008-09-11 Presentation of the latest scientific

and engineering developments in the field of tubular steel structures Covers key and emerging subjects of hollow structural sections such as static and fatigue behaviour of connections joints concrete filled hollow sections and composite tubular members offshore structures earthquake resistance **Indian Science Abstracts** ,2011-05 *Concrete Solutions 2014* Michael Grantham,P A Muhammed Basheer,Bryan Magee,Marios Soutsos,2014-08-18 The Concrete Solutions series of International Conferences on Concrete Repair began in 2003 with a conference held in St Malo France in association with INSA Rennes Subsequent conferences have seen us partnering with the University of Padua in 2009 and with TU Dresden in 2011 This conference is being held for the first time in the UK in association with Queen s University Belfast and brings together delegates from 36 countries to discuss the latest advances and technologies in concrete repair Earlier conferences were dominated by electrochemical repair but there has been an interesting shift to more unusual methods such as bacterial repair of concrete plus an increased focus on service life design aspects and modelling with debate and discussion on the best techniques and the validity of existing methods Repair of heritage structures is also growing in importance and a number of the papers have focused on the importance of getting this right so that we may preserve our rich cultural heritage of historic structures This book is an essential reference work for those working in the concrete repair field from Engineers to Architects and from Students to Clients Success One Mathematics General 2 2018 Edit,2018-02-12 Excel Success One HSC Mathematics General 2 contains 2002 2016 past HSC questions with detailed worked answers written by experienced HSC markers and a Mark Maximizer Guide A Topic Index for 2002 2016 past HSC General Mathematics and Mathematics General 2 papers are also included This title helps you get the results you want by practising actual HSC papers and answering HSC level questions Chemistry Education in the ICT Age Minu Gupta Bhowon,Sabina Jhaumeer-Laulloo,Henri Li Kam Wah,Ponnadurai Ramasami,2009-07-21 th th The 20 International Conference on Chemical Education 20 ICCE which had rd th Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le M ridien Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations th Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication th We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in

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Aaron Butler, Rosemary Peers, 2021 Excel Success One HSC Mathematics Advanced 2021 Edition contains 2009-2019 past HSC Mathematics papers Any questions that are not examinable in the new Year 12 Mathematics Advanced syllabus are marked with a cross Bonus questions from the new Mathematics Advanced syllabus To replace the past HSC questions that are no longer examinable the bonus questions cover the new topics such as Networks and Bivariate Data Analysis By combining the bonus questions with the examinable past HSC questions you can practice complete papers worth 100 marks for the new syllabus The 2019 and 2020 HSC Examination papers Worked answers for every question written by experienced HSC markers to be detailed and easy to understand **Forthcoming Books** Rose Army, 1989 **Yearbook of International Organizations**, 1990

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