Total Number of Pages: 2

5th Semester Regular / Back Examination 2016-17
SIGNALS AND SYSTEMS
BRANCH: AEIE, BIOTECH, ECE, EIE, ETC
Time: 3 Hours
Max Marks: 70
Q.CODE: Y289
Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1   Answer the following questions: (2 x 10)
- a) State whether the following discrete time system is static or dynamic where $y(n) = \log_{10}|x(n)|$
- b) State whether the following system is BIBO stable or not where $y(n) = x(n) - x(-n-1) + x(n-1)$
- c) Prove that $\alpha_o = 0$ and $\alpha_n = 0$ (where α_o and α_n represents trigonometric Fourier Series Coefficients) if x(t) exhibits odd symmetry.
- d) Find the Fourier transform of A (constant).
- e) Find the Z transform of $x^*(n)$.
- f) Determine the energy and power of a d.t. unit step signal.
- g) Find the DFT of $\delta(n)$.
- h) Find the DFT of a purely real and even signal x(n).
- i) Distinguish between FIR and IIR systems.
- j) Prove that autocorrelation at zero lag represents energy of a discrete time signal x(n).

Q2   Define autocorrelation and cross correlation. Show that autocorrelation is an even function of lag 'l' and it is maximum at zero lag.   (2+8)

Q3   a) Prove that the Parseval's relation in the Z domain   (5)

$$\sum_{-\infty}^{\infty} x_1(n)x_2^*(n) = \frac{1}{2\pi j}\int X_1(Z)X_2^*(\tfrac{1}{v^*})z^{-1}dz$$

    b) Find the linear convolution between $x_1(n) * x_2(n)$ where   (5)

$x_1(n) = \{1, \tfrac{2}{\uparrow}, 3, 4\}$ and $x_2(n) = \{-1, 0, \tfrac{1}{\uparrow}, 2\}$ using graphical method.

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Patrick Vollmar

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Science section asked in a number of competitive examinations it for sure will work as a preparation booster for various competitive examinations like UPSC State Level PSCs Examinations SSC CDS NDA CISF and other general competitive recruitment examinations   Deductive Systems in Traditional and Modern Logic Alex Citkin,UrszulaWybraniec-Skardowska,2020-11-18 The book provides a contemporary view on different aspects of the deductive systems in various types of logics including term logics propositional logics logics of refutation non Fregean logics higher order logics and arithmetic   *Computer Science Logic* Anuj Dawar,Helmut Veith,2010-08-14 Annotation This volume constitutes the refereed proceedings of the 24th International Workshop on Computer Science Logic CSL 2010 held in Brno Czech Republic in August 2010 The 33 full papers presented together with 7 invited talks were carefully reviewed and selected from 103 submissions Topics covered include automated deduction and interactive theorem proving constructive mathematics and type theory equational logic and term rewriting automata and games modal and temporal logic model checking decision procedures logical aspects of computational complexity finite model theory computational proof theory logic programming and constraints lambda calculus and combinatory logic categorical logic and topological semantics domain theory database theory specification extraction and transformation of programs logical foundations of programming paradigms verification and program analysis linear logic higher order logic and nonmonotonic reasoning   Erotetic Logic, Deontic Logic, and Other Logical Matters Andrzej Wiśniewski,Jan Zygmunt,1997   **Logic and Data Bases** Hervé Gallaire,Jack Minker,2012-12-06   *Logic's Lost Genius* Eckart Menzler-Trott,2016-05-05 Gerhard Gentzen 1909 1945 is the founder of modern structural proof theory His lasting methods rules and structures resulted not only in the technical mathematical discipline called proof theory but also in verification programs that are essential in computer science The appearance clarity and elegance of Gentzen s work on natural deduction the sequent calculus and ordinal proof theory continue to be impressive even today The present book gives the first comprehensive detailed accurate scientific biography expounding the life and work of Gerhard Gentzen one of our greatest logicians until his arrest and death in Prague in 1945 Particular emphasis in the book is put on the conditions of scientific research in this case mathematical logic in National Socialist Germany the ideological fight for German logic and their mutual protagonists Numerous hitherto unpublished sources family documents archival material interviews and letters as well as Gentzen s lectures for the mathematical public make this book an indispensable source of information on this important mathematician his work and his time The volume is completed by two deep substantial essays by Jan von Plato and Craig Smory ski on Gentzen s proof theory its relation to the ideas of Hilbert Brouwer Weyl and G del and its development up to the present day Smory ski explains the Hilbert program in more than the usual slogan form and shows why consistency is important Von Plato shows in detail the benefits of Gentzen s program This important book is a self contained starting point for any work on Gentzen and his logic The book is accessible to a wide audience with different backgrounds and is suitable for general readers researchers students and teachers

Automated Deduction – CADE 28 André Platzer,Geoff Sutcliffe,2021-07-07 This open access book constitutes the proceeding of the 28th International Conference on Automated Deduction CADE 28 held virtually in July 2021 The 29 full papers and 7 system descriptions presented together with 2 invited papers were carefully reviewed and selected from 76 submissions CADE is the major forum for the presentation of research in all aspects of automated deduction including foundations applications implementations and practical experience The papers are organized in the following topics Logical foundations theory and principles implementation and application ATP and AI and system descriptions **Logic Programs, Norms and Action** Alexander Artikis,Robert Craven,Nihan Kesim Cicekli,Babak Sadighi,Kostas Stathis,2012-04-25 This book is dedicated to Marek Sergot Professor in Computational Logic at Imperial College London on the occasion of his 60th birthday Professor Sergot s scientific contributions range over many different fields He has developed a series of novel ideas and formal methods bridging areas including artificial intelligence computational logic philosophical logic legal theory artificial intelligence and law multi agent systems and bioinformatics By combining his background in logic and computing with his interest in the law deontic logic action and related areas and applying to all his capacity to understand the subtleties of social interaction and normative reasoning Professor Sergot has opened up new directions of research and has been a reference an inspiration and a model for many researchers in the fields to which he has contributed The Festschrift includes several reminiscences and introductory essays describing Professor Sergot s achievements followed by a series of articles on logic programming temporal reasoning and action languages artificial intelligence and law deontic logic and norm governed systems and logical approaches to policies **Logic Colloquium '86** F.R. Drake,J.K. Truss,1987-11-01 The result of the European Summer Meeting of the Association for Symbolic Logic this volume gives an overview of the latest developments in most of the major fields of logic being actively pursued today Important new developments in the applications of logic in computer science are presented Other areas examined include model theory set theory recursion theory proof theory and the history of logic This volume contains the texts of ten of the invited lectures and six of the contributed papers 22nd European Conference on e-Learning Shawren Singh,Sarah Jane Johnston,2023-10-26 These proceedings represent the work of contributors to the 22nd European Conference on e Learning ECEL 2023 hosted by University of South Africa Pretoria South Africa on 26 27 October 2023 The Conference Co Chairs Associate Professor Sarah Jane Johnston and Associate Professor Shawren Singh both from University of South Africa Pretoria South Africa ECEL is now a well established event on the academic research calendar and now in its 22nd year the key aim remains the opportunity for participants to share ideas and meet the people who hold them The scope of papers will ensure an interesting two days The subjects covered illustrate the wide range of topics that fall into this important and ever growing area of research It is especially relevant that the conference is being hosted by UNISA this year as the university celebrates its 150th anniversary UNISA has been a pioneer in first distance and now e Learning The conference will also host the final round of the 9th e Learning Excellence Awards

where innovate case histories will be presented The opening keynote presentation is given by Professor Thenjiwe Meyiwa Vice Principal for the Research Postgraduate Studies Innovation and Commercialisation at University of South Africa who will speak on The Role of African Feminisms in Shaping a Sustainable Future of Being and Learning An afternoon keynote on Thursday will be made by Dr Zolile Martin Mguda University of South Africa on the topic of ChatGPT The first year The second day of the conference will open with an address by Dr Isabel Tarling MD Limina South Africa with the title Developing Digital Standards for Learning and Teaching in South Africa s Schools With an initial submission of 100 abstracts after the double blind peer review process there are 45 Academic research papers 3 PhD research papers and 1 Masters Research paper published in these Conference Proceedings These papers represent research from Belgium Canada Chile Czech Republic France Germany Ghana Greece Hong Kong Ireland Japan Malaysia Mozambique Norway Oman Per Poland Portugal Romania Singapore South Africa Sri Lanka Sweden Switzerland Turkey and the United Kingdom *Inductive Logic Programming* Tamas Horváth,2003-09-24 This book constitutes the refereed proceedings of the 13th International Conference on Inductive Logic Programming ILP 2003 held in Szeged Hungary in September October 2003 The 23 revised full papers presented were carefully reviewed and selected from 53 submissions Among the topics addressed are multirelational data mining complexity issues theory revision clustering mathematical discovery relational reinforcement learning multirelational learning inductive inference description logics grammar systems and inductive learning UGC NET Electronic Science Practice Question Asnwer Sets [Question Bank] Unit Wise As Per Updated Syllabus : Include 4000+ Question Answers DIWAKAR EDUCATION HUB,2021-09-22 UGC NTA NET ELECTRONIC SCIENCE Code 88 4500 Unit Wise Topic Wise Practice Question Answer As Per Updated Syllabus MCQs Highlight 1 Complete Details all Topics Subjects Covered Based on all 10 Units 2 Unit Wise Practice Question and Answer MCQs 450 MCQs of each UNIT Total 4500 MCQs 3 Prepared by Expert Faculty 4 As Per the New Updated Syllabus 5 All Questions With Solutions Explanations For More Details Call in Our Offical Number 7310762592 **Rewriting Logic and Its Applications** Peter Csaba Ölveczky,2010-10-06 This book constitutes the refereed proceedings of the 8th International Workshop on Rewriting Logic and its Applications WRLA 2010 held as a satellite event of ETAPS 2010 Paphos Cyprus in March 2010 The 13 revised full papers presented were carefully reviewed and selected from 29 submissions The papers are organized in topical sections on termination and narrowing tools the K framework applications and semantics maude model checking and debugging and rewrite engines The Logic of Software. A Tasting Menu of Formal Methods Wolfgang Ahrendt,Bernhard Beckert,Richard Bubel,Einar Broch Johnsen,2022-07-04 This Festschrift dedicated to Reiner H hnle on the occasion of his 60th birthday contains papers written by many of his closest collaborators After positions at Karlsruhe Institute of Technology and Chalmers University of Technology since 2011 Reiner has been the chaired professor of Software Engineering at Technische Universit t Darmstadt where his team focuses on the formal verification of object oriented software the formal modeling and specification of highly

adaptive software systems and formal modeling and analysis in domains such as biological systems and railroad operations His work is characterized by achievements in theory and in practical implementations significant collaborations include the KeY project and the development of the ABS language He has served as chair and editor of important related academic conferences and coauthored almost 200 academic publications The contributions in this volume reflect Reiner s main research focus formal methods in particular applied to software verification   **Mathematical Logic in Latin America, Proceedings of the IV Latin American Symposium on Mathematical Logic** Lev D. Beklemishev,2000-04-01 Mathematical Logic in Latin America Proceedings of the IV Latin American Symposium on Mathematical Logic   **Logic in Question** Jean-Yves Béziau,Jean-Pierre Desclés,Amirouche Moktefi,Anca Christine Pascu,2023-01-11 This contributed volume collects papers related to the Logic in Question workshop which has taken place annually at Sorbonne University in Paris since 2011 Each year the workshop brings together historians philosophers mathematicians linguists and computer scientists to explore questions related to the nature of logic and how it has developed over the years As a result chapter authors provide a thorough interdisciplinary exploration of topics that have been studied in the workshop Organized into three sections the first part of the book focuses on historical questions related to logic the second explores philosophical questions and the third section is dedicated to mathematical discussions Specific topics include logic and analogy Chinese logic nineteenth century British logic in particular Boole and Lewis Carroll logical diagrams the place and value of logic in Louis Couturat s philosophical thinking contributions of logical analysis for mathematics education the exceptionality of logic the logical expressive power of natural languages the unification of mathematics via topos theory Logic in Question will appeal to pure logicians historians of logic philosophers linguists and other researchers interested in the history of logic making this volume a unique and valuable contribution to the field   **Modal Logic as Metaphysics** Timothy Williamson,2013-03-28 Are there such things as merely possible people who would have lived if our ancestors had acted differently Are there future people who have not yet been conceived Questions like those raise deep issues about both the nature of being and its logical relations with contingency and change In Modal Logic as Metaphysics Timothy Williamson argues for positive answers to those questions on the basis of an integrated approach to the issues applying the technical resources of modal logic to provide structural cores for metaphysical theories He rejects the search for a metaphysically neutral logic as futile The book contains detailed historical discussion of how the metaphysical issues emerged in the twentieth century development of quantified modal logic through the work of such figures as Rudolf Carnap Ruth Barcan Marcus Arthur Prior and Saul Kripke It proposes higher order modal logic as a new setting in which to resolve such metaphysical questions scientifically by the construction of systematic logical theories embodying rival answers and their comparison by normal scientific standards Williamson provides both a rigorous introduction to the technical background needed to understand metaphysical questions in quantified modal logic and an extended argument for controversial

provocative answers to them He gives original precise treatments of topics including the relation between logic and metaphysics the methodology of theory choice in philosophy the nature of possible worlds and their role in semantics plural quantification compared to quantification into predicate position communication across metaphysical disagreement and problems for truthmaker theory

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Table of Contents Nlogic Systems Question Papers 22

1. Understanding the eBook Nlogic Systems Question Papers 22
    - The Rise of Digital Reading Nlogic Systems Question Papers 22
    - Advantages of eBooks Over Traditional Books
2. Identifying Nlogic Systems Question Papers 22
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Nlogic Systems Question Papers 22
    - User-Friendly Interface
4. Exploring eBook Recommendations from Nlogic Systems Question Papers 22
    - Personalized Recommendations
    - Nlogic Systems Question Papers 22 User Reviews and Ratings
    - Nlogic Systems Question Papers 22 and Bestseller Lists
5. Accessing Nlogic Systems Question Papers 22 Free and Paid eBooks

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