

Faculty of Computers & Artificial Intelligence 1st Term (December 2020) Midterm Exam Class: 2st Year Students Course Code: CS221 Subject: logic design



Benha University
Date: 10 / 12 /2020
Time: 60 Minutes
Total Marks: 20 Marks
Examiner(s): Prof. Dr. Hala Zayed
Dr. Alsa eldin Abdallah

Model Answer

Question No. 1

[5 Marks]

Perform the following operations:

- a) 1111+1100
- ...11011
- b) 10010110 101100 1101010
- c) 10100 ÷ 100 00101
- d) 010001010000 + 010000010111 in BDC format 450 + 417 = 867 --- also you can add in binary and then convert result to BCD

e) the standard form of expression (A + B' + C) (B' + C + D') the missing variable in the term (A + B' + C) = D or D', so add DD' to the term = (A + B' + C + D) (A + B' + C + D') the missing variable in the term (B' + C + D') is A or A', so add AA' to the term = (B' + C + D' + A) (B' + C + D' + A') So the standard form = (A + B' + C + D) (A + B' + C + D') (B' + C + D' + A) (B' + C + D' + A')

Question No. 2

[5 Marks]

a) what is the decimal value of the signed binary number expressed in 1's complement: 11101000?

Summing the weights where there are 1s, -128 + 64 + 32 + 8 = -24Adding 1 to the result, the final decimal number is = -24 + 1 = -23.

b) what is the equivalent octal number of the binary number: 100110011010?

100110011010 = 4632

Answer To Ucla Logic

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Description Logic, Theory Combination, and All That Carsten Lutz, Uli Sattler, Cesare Tinelli, Anni-Yasmin Turhan, Frank Wolter, 2019-06-25 This Festschrift has been put together on the occasion of Franz Baader's 60th birthday to celebrate his fundamental and highly influential scientific contributions. The 30 papers in this volume cover several scientific areas that Franz Baader has been working on during the last three decades including description logics term rewriting and the combination of decision procedures We hope that readers will enjoy the articles gathered in Franz's honour and appreciate the breadth and depth of his favourite areas of computer science Logic Programming and Nonmonotonic Reasoning Carmine Dodaro, Gopal Gupta, Maria Vanina Martinez, 2024-10-11 This book constitutes the refereed proceedings of the 17th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 2024 held in Dallas TX USA during October 11 14 2024 The 27 full papers and 3 short papers included in this book were carefully reviewed and selected from 48 submissions They deal with declarative logic programming non monotonic reasoning and knowledge representation focusing on the design and implementation of logic based programming languages and database systems Logic Programming and Nonmonotonic Reasoning Francesco Calimeri, Giovambattista Ianni, Miroslaw Truszczynski, 2015-09-14 This volume contains the refereed proceedings of the 13th International Conference on Logic Programming and Nonmonotonic Reasoning LPNMR 2015 held in September 2015 in Lexington KY USA The 290long and 11 short papers presented together with 3 invited talks the paper reporting on the Answer Set Programming competition and four papers presented by LPNMR student attendees at the doctoral consortium were carefully reviewed and selected from 60 submissions LPNMR is a forum for exchanging ideas on declarative logic programming nonmonotonic reasoning and knowledge representation The aim of the LPNMR conferences is to facilitate interactions between researchers interested in the design and implementation of logic based programming languages and database systems and researchers who work in the areas of knowledge representation and Progress in Artificial Intelligence Paulo Moura Oliveira, Paulo Novais, Luís Paulo Reis, 2019-09-03 nonmonotonic reasoning This book constitutes the refereed proceedings of the 19th EPIA Conference on Artificial Intelligence EPIA 2019 held in Funchal Madeira Portugal in September 2019 The 119 revised full papers and 6 short papers presented were carefully reviewed and selected from a total of 252 submissions The papers are organized in 18 tracks devoted to the following topics AIEd Artificial Intelligence in Education AI4G Artificial Intelligence for Games AIoTA Artificial Intelligence and IoT in Agriculture AIL Artificial Intelligence and Law AIM Artificial Intelligence in Medicine AICPDES Artificial Intelligence in Cyber Physical and Distributed Embedded Systems AIPES Artificial Intelligence in Power and Energy Systems AITS Artificial Intelligence in Transportation Systems ALEA Artificial Life and Evolutionary Algorithms AmIA Ambient Intelligence and Affective Environments BAAI Business Applications of Artificial Intelligence GAI General AI IROBOT Intelligent Robotics KDBI Knowledge Discovery and Business Intelligence KRR Knowledge Representation and Reasoning MASTA Multi Agent

Systems Theory and Applications SSM Social Simulation and Modelling TeMA Text Mining and Applications Hans **Reichenbach: Logical Empiricist** M.H. Salmon, 2012-12-06 Logical empiricism not to be confused with logical positivism see pp 40 44 is a movement which has left an indelible mark on twentieth century philosophy Hans Reichenbach 1891 1953 was one of its found ers and one of its most productive advocates His sudden and untimely death in 1953 halted his work when he was at the height of his intellectual powers nevertheless he bequeathed to us a handsome philosophical inheritance At the present time twenty five years later we can survey our heritage and see to what extent we have been enriched The present collection of essays constitutes an effort to do just that to exhibit the scope and unity of Reichenbach's philosophy and its relevance to current philosophical issues There is no Nobel Prize in philosophy the closest analogue is a volume in The Library of Living Philosophers an honor which like the Nobel Prize cannot be awarded posthumously Among scientific philosophers Rudolf Carnap Albert Einstein Karl Popper and Bertrand Russell have been so honored Had Reichenbach lived longer he would have shared the honor with Carnap for at the time of his death a volume on Logical Empiricism treating the works of Carnap and Reichenbach was in its early stages of preparation In the volume which emerged Carnap wrote In 1953 when Reichenbach's creative activity was suddenly ended by his premature death our movement lost one of its most active The Humanities Computing Yearbook 1989-1990 Ian Lancashire, 1991 This is the second in a series of leaders comprehensive annual reference guides to the use of computers in all the disciplines of the humanities Like its predecessor this volume provides a taxonomy of the field and an annotated survey of publications research centers text archives and termbanks electronic communications software and hardware relevant to the humanities It also includes special larger entries for important software that offer up to date information and practical help in applying that information to research projects and instruction in colleges and universities For the 1989 1990 edition Lancashire has for the first time appointed an international advisory board of specialists to assist in discovering assembling and evaluating materials for inclusion and to keep up with the rapidly developing nature of the field and its international constituency Lancashire has included many completely new or revised sections including a major new chapter on computing in Law A monumental work of current and enduring value The Humanities Computing Yearbook will prove invaluable to a wide range of students teachers and researchers in humanities and social sciences computational linguistics and related fields in computer science Bibliovect Guide to the Literature in English and Theoretical Syntax Lawrence R. Smith, 1981 **Kreiseliana** Piergiorgio Odifreddi,1996-10-15 This multifaceted collection of essays reminiscences and professional papers combine to create an exceptional tribute to the unusual enigmatic and ultimately fascinating personality of Georg Kreisel An eminently influential logician and mathematical philosopher Kreisel is revealed as much more in this entertaining juxtaposition of viewpoints from famous contributors like Verena Huber Dyson Sol Feferman and Francis Crick Mathematics fans and armchair philosophers will delight in this look at Kreisel as he conveys his unique personal and intellectual influence UCLA ,1980

Proceedings of the First International Conference on Principles of Knowledge Representation and Reasoning Ronald J. Brachman, Hector I. Levesque, Ray Reiter, 1989 Proceedings held May 1989 Topics include temporal logic hierarchical knowledge bases default theories nonmonotonic and analogical reasoning formal theories of belief revision and metareasoning Annotation copyright Book News Inc Portland Or Rudolf Carnap, Logical Empiricist Jaakko Hintikka.1975-12-31 Mathematical Reviews ,2005 Embedded Systems Technology Yuanguo Bi, Gang Chen, Oingxu Deng, Yi Wang, 2018-07-09 This book constitutes the refereed proceedings of the 15th National Conference on Embedded Systems Technology ESTC 2017 held in Shenyang China in November 2017 The 18 revised full papers presented were carefully reviewed and selected from 45 papers The topics cover a broad range of fields focusing on the theme embedded systems and intelligent computing such as context aware computing scheduling cyber physical system high performance embedded computing embedded system and applications and education and surveys <u>Deletion and Logical Form</u> Ivan A. Sag, 1980 Logical Aspects of Computational Linguistics ,2001 Carnap's Logical Syntax of Language Pierre Wagner, 2009-04-15 This volume s aim is to provide an introduction to Carnap s book from a historical and philosophical perspective each chapter focusing on one specific issue The book will be of interest not only to Carnap scholars but to all those interested in the history of analytical philosophy The Journal of Philosophy, 1974 Byte ,1987-10 **Bulletin of Symbolic Logic** ,1995 Carnap and Twentieth-Century Thought A. W. Carus, 2007-12-13 Rudolf Carnap 1891 1970 is widely regarded as one of the most important philosophers of the twentieth century Born in Germany and later a US citizen he was a founder of the philosophical movement known as Logical Empiricism He was strongly influenced by a number of different philosophical traditions including the legacies of both Kant and Husserl and also by the German Youth Movement the First World War in which he was wounded and decorated and radical socialism This book places his central ideas in a broad cultural political and intellectual context showing how he synthesised many different currents of thought to achieve a philosophical perspective that remains strikingly relevant in the twenty first century Its rich account of a philosopher's response to his times will appeal to all who are interested in the development of philosophy in the twentieth century

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