

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 2010

Gilles Barthe

Answer To Ucla Logic 2010:

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 Computational Logic Dov M. Gabbay, Jörg H. the breadth and depth of his favourite areas of computer science Siekmann, John Woods, 2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning Calculemus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic **Questions** Veneeta Dayal, 2016 This book synthesizes and integrates 40 years of research on the semantics of questions and its interface with pragmatics and syntax conducted within the formal semantics tradition A wide range of topics are covered including weak strong exhaustiveness maximality functional answers single multiple trapped list answers embedding predicates quantificational variability concealed questions weak islands polar and alternative questions negative polarity and non canonical questions The literature on this rich set of topics theoretically diverse and scattered across multiple venues is often hard to assimilate

Veneeta Dayal drawing on her own research brings them together for the first time in a coherent concise and well structured whole Each chapter begins with a non technical introduction to the issues discussed semantically sophisticated accounts are then presented incrementally with the major points summarized at the end of each section Written in an accessible style this book provides both a guide to one of the most vibrant areas of research in natural language and an account of how this area of study is developing It will be a unique resource for the novice and expert alike and seeks to appeal to a variety of readers without compromising depth and breadth of coverage The 2010 Meltdown Edward E. Gordon, 2005-09-30 This is an indictment of current management and education practices that are creating a shortage of skilled labour The march of technological development and globalisation continues to put pressure on all national economies bringing opportunity for some and marginalisation for others Nations will need to confront two coming economic shocks a rise in the retired population and a shortage of young well educated people to fill a rising number of highly skilled technology related jobs Ed Gordon marshals vast amounts of data to illustrate how these trends are quickly converging creating a labour vacuum with potentially disastrous consequences In The 2010 Meltdown Gordon sounds a wake up call to anyone with a stake in our economic future Beyond the demographic issues he notes that such cultural factors as Wall Street's obsession with short term results and the neglect of maths and science skills at school are contributing to a fundamental mismatch between labour supply and demand But the news is not all grim Gordon highlights innovative initiatives in training education and community development in the U S and around the world that can serve as models for positive **Concealed Questions** Ilaria Frana, 2017 This book presents a new analysis of concealed question constructions in which part of a sentence looks like a nominal complement but is interpreted as an indirect question It provides a fully compositional account of a range of these constructions and offers insights into a variety of issues in semantic theory and the syntax semantics interface

Progress in Artificial Intelligence Paulo Moura Oliveira, Paulo Novais, Luís Paulo Reis, 2019-09-03 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

Mood Paul

Portner, 2018 This book presents the essential background for understanding semantic theories of both verbal mood and sentence mood Paul Portner evaluates and compares the theories draws connections between seemingly disparate approaches and highlights the most significant insights in the literature to provide a clearer understanding of how mood works Verification, Model Checking, and Abstract Interpretation Gilles Barthe, 2010-01-08 This book constitutes the refereed proceedings of the 11th International Conference on Verification Model Checking and Abstract Interpretation VMCAI 2010 held in Madrid Spain in January 2010 The 21 papers included in this volume were carefully reviewed and selected from 57 submissions In addition 3 invited talks and 3 invited tutorials are presented Topics covered by VMCAI include program verification program certification model checking debugging techniques abstract interpretation abstract domains static analysis type systems deductive methods and optimization **Negation and Nonveridicality in the History of Greek** Katerina Chatzopoulou, 2019 This book provides a thorough investigation of the expression of sentential negation in the history of Greek based on extensive data from major stages of the language It also provides a new semantic interpretation of Jespersen's cycle that explains the Greek developments and those in other languages The Semantics of Evaluativity Jessica Rett, 2015 This book focuses on the semantic phenomenon of evaluativity and its consequences across constructions Evaluativity has traditionally been associated exclusively with the positive construction a term for sentences with a gradable adjective but with no overt degree morphology John is tall is evaluative because it entails that John is tall relative to a contextually valued standard John is taller than Sue and John is as tall as Sue are not evaluative because both could be used even if John and Sue were short Previous accounts of evaluativity have assumed that it is not part of the inherent meaning of adjectives but is contributed by a null morpheme Jessica Rett argues against this analysis proposing that no null morpheme is required Instead evaluativity is explained on the basis of assumptions that speakers and hearers make about the relationship between the simplicity of a situation and the simplicity of the language used to describe that situation the analysis is couched in recent approaches to Gricean conversational implicature

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