

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**

Carmine Dodaro, Gopal Gupta, Maria Vanina Martinez

## **Answer To Ucla Logic:**

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 nonmonotonic reasoning Logical Aspects of Computational Linquistics Philippe de Groote, Glyn Morrill, Christian Retore, 2003-06-29 This book constitutes the refereed proceedings of the 4th International Conference on Logical Aspects of Computational Linguistics LACL 2001 held in Le Croisic France in June 2001 The 16 revised full papers presented together with two invited papers were carefully reviewed and selected for presentation Among the topics covered are categorical grammars dependency grammars formal language theory grammatical inference hyperintensional semantics minimalism type logical semantics language learning and natural language processing 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 Hans Reichenbach: Logical Empiricist M.H. Salmon, 2012-12-06 Logical TeMA Text Mining and Applications 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 leaders The Humanities Computing Yearbook 1989-1990 Ian Lancashire, 1991 This is the second in a series of 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 Anaphora and Type Logical Grammar Gerhard Jäger, 2005-12-08

Type Logical Grammar is a framework that emerged from the synthesis of two traditions Categorial Grammar from formal linguistics and substructural logics from logic Grammatical composition is conceived as resource conscious logical deduction Such a grammar is necessarily surface oriented and lexicalistic The Curry Howard correspondence supplies an elegant compositional mapping from syntax to semantics Anaphora does not seem to fit well into this framework In type logical deductions each resource is used exactly once Anaphora however is a phenomenon where semantic resources are used more than once Generally admitting the multiple use of lexical resources is not possible because it would lead to empirical inadequacy and computational intractability This book develops a hybrid architecture that allows to incorporate anaphora resolution into grammatical deduction while avoiding these consequences To this end the grammar logic is enriched with a connective that specifically deals with anaphora After giving a self contained introduction into Type Logical Grammar in general the book discusses the formal properties of this connective In the sequel J ger applies this machinery to numerous linguistic phenomena pertaining to the interaction of pronominal anaphora VP ellipsis and quantification In the final chapter the framework is extended to indefiniteness specificity and sluicing **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 Rudolf Carnap, Logical Empiricist Jaakko Hintikka, 2014-11-14

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# **Table of Contents Answer To Ucla Logic**

- 1. Understanding the eBook Answer To Ucla Logic
  - The Rise of Digital Reading Answer To Ucla Logic
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Answer To Ucla Logic
  - 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 Answer To Ucla Logic
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer To Ucla Logic
  - Personalized Recommendations
  - Answer To Ucla Logic User Reviews and Ratings
  - Answer To Ucla Logic and Bestseller Lists
- 5. Accessing Answer To Ucla Logic Free and Paid eBooks
  - Answer To Ucla Logic Public Domain eBooks
  - Answer To Ucla Logic eBook Subscription Services
  - Answer To Ucla Logic Budget-Friendly Options

- 6. Navigating Answer To Ucla Logic eBook Formats
  - o ePub, PDF, MOBI, and More
  - Answer To Ucla Logic Compatibility with Devices
  - Answer To Ucla Logic Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answer To Ucla Logic
  - Highlighting and Note-Taking Answer To Ucla Logic
  - Interactive Elements Answer To Ucla Logic
- 8. Staying Engaged with Answer To Ucla Logic
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answer To Ucla Logic
- 9. Balancing eBooks and Physical Books Answer To Ucla Logic
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answer To Ucla Logic
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answer To Ucla Logic
  - Setting Reading Goals Answer To Ucla Logic
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer To Ucla Logic
  - Fact-Checking eBook Content of Answer To Ucla Logic
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

• Interactive and Gamified eBooks

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