

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 20**

Larry C. Holt, Marcella L. Kysilka

#### **Answer To Ucla Logic 20:**

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 UCLA,1980 Perspectives on the History of Mathematical Logic Thomas Drucker, 2008-01-04 This volume offers insights into the development of mathematical logic over the last century Arising from a special session of the history of logic at an American Mathematical Society meeting the chapters explore technical innovations the philosophical consequences of work during the period and the historical and social context in which the logicians worked The discussions herein will appeal to mathematical logicians and historians of mathematics as well as philosophers and historians of science War's Logic Antulio J. Echevarria II,2021-02-18 Surveys how American strategic theorists have understood the nature and character of war in the twentieth century Logic Colloquium 2000 René Cori, Alexander Razborov, Stevo Todorčević, Carol Wood, 2017-03-30 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the nineteenth publication in the Lecture Notes in Logic series collects the proceedings of the European Summer Meeting of the Association for Symbolic Logic held in Paris France in July 2000 This meeting marked the centennial anniversary of Hilbert's famous lecture and was held in the same hall at La Sorbonne where Hilbert presented his problems Three long articles based on tutorials given at the meeting present accessible expositions of developing research in model theory computability and set theory. The eleven subsequent Ouestion-orientedness and the papers present work from the research frontier in all areas of mathematical logic Semantics of Clausal Complementation Wataru Uegaki, 2023-01-08 This volume explores the compositional semantics of clausal complementation and proposes a theory in which clause embedding predicates are uniformly question oriented i e they take a set of propositions as their semantic argument This theory opens up new horizons for the study of embedded questions and clausal complementation and presents a successful case study on how lexical semantics interacts with syntax and compositional semantics It offers new perspectives on issues in epistemology and the philosophy of language such as the relationship between know wh and know that and the nature of attitudinal objects in general Cross linguistically attitude predicates such as know tell and surprise can embed both declarative and interrogative clauses Since these clauses are taken to represent different semantic objects like propositions and questions the embedding behavior of these predicates poses puzzles for the compositional semantics of clausal complementation In addition the fact that some verbs select for a certain

complement type poses further challenges for compositional semantics. This volume addresses these issues based on a uniformly question oriented analysis of attitude predicates and proposes to derive their variable behaviors from their lexical semantics. The book is essential reading for linguists working on the syntax and semantics of clausal complementation as well as those interested in the role of lexical semantics in compositional semantics. It will also be valuable for philosophers who are interested in applying linguistic tools to address philosophical problems Cabal Seminar 76-77 A. S. Kechris, Y. N. Logic Programming and Nonmonotonic Reasoning Francesco Calimeri, Giovambattista Moschovakis, 2006-11-15 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 **Instructional Patterns** Larry C. Holt, Marcella L. Kysilka, 2006 I like the mix of theory and research background with thorough descriptions of classroom use vignettes and how to s Teresa Secules Piedmont College Instructional Patterns Strategies for Maximizing Student Learning examines instruction from the learners point of view by showing how instructional patterns can be used to maximize the potential for students to learn This book explores the interactive patterns that exist in today s classroom and demonstrates how teachers can facilitate the interactivity of these patterns to match their goals for student learning These interactive patterns are reinforced through the incorporation of medical cognitive and behavioral neuroscience research This unique book will serve as a core text for undergraduate and graduate courses in K 12 General Teaching Methods Middle School and Secondary Teaching Methods Elementary Teaching Methods or Instruction and Assessment Key Features Guides students in differentiating instructional practices to meet the needs of all students as well as in the practical issues of instruction Details interactive instructional patterns that include teacher centered patterns teacher student interactive patterns and student centered patterns Instructor Resources on CD contains PowerPoint slides test questions includes Multiple Choice Short Answer and Essay format and answers lecture outlines teaching activities Web resources and sample syllabi A web based Student Study Site provides e flashcards links to standards from U S states standards based project Web resources and access to full text articles in SAGE journals related to the text Influences on the Aufbau Christian Damböck, 2015-12-28 This volume offers 11 papers that cover the wide spectrum of influences on Rudolf Carnap's seminal work Der Logische Aufbau der Welt The Logical Structure of the World Along the way it covers a host of topics related to this important

philosophical work including logic theories of order science hermeneutics and mathematics in the Aufbau as the work is commonly termed The book uncovers the influences of such neglected figures as Gerhards Driesch Ziehen and Ostwald It also presents new evidence on influences of well known figures in philosophy including Husserl Rickert Schlick and Neurath In addition the book offers comparisons of the Aufbau with the work of contemporary scientists such as Weyl and Wiener as well as features new archival findings on the early Carnap This book will appeal to researchers and students with an interest in the history and philosophy of science history of analytic philosophy the philosophy of the Vienna Circle and the philosophy in interwar Germany and Austria

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