

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

Carsten Lutz, Uli Sattler, Cesare Tinelli, Anni-Yasmin Turhan, Frank Wolter

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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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