

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

Thomas Griffiths

Answer To Ucla Logic 20:

Unveiling the Energy of Verbal Art: An Mental Sojourn through Answer To Ucla Logic 20

In some sort of inundated with displays and the cacophony of immediate conversation, the profound energy and psychological resonance of verbal beauty usually diminish in to obscurity, eclipsed by the continuous assault of noise and distractions. Yet, located within the lyrical pages of **Answer To Ucla Logic 20**, a interesting perform of fictional splendor that impulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Published with a virtuoso wordsmith, this enchanting opus manuals viewers on a psychological odyssey, lightly revealing the latent potential and profound affect stuck within the intricate web of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is key subjects, dissect their captivating writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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