

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

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