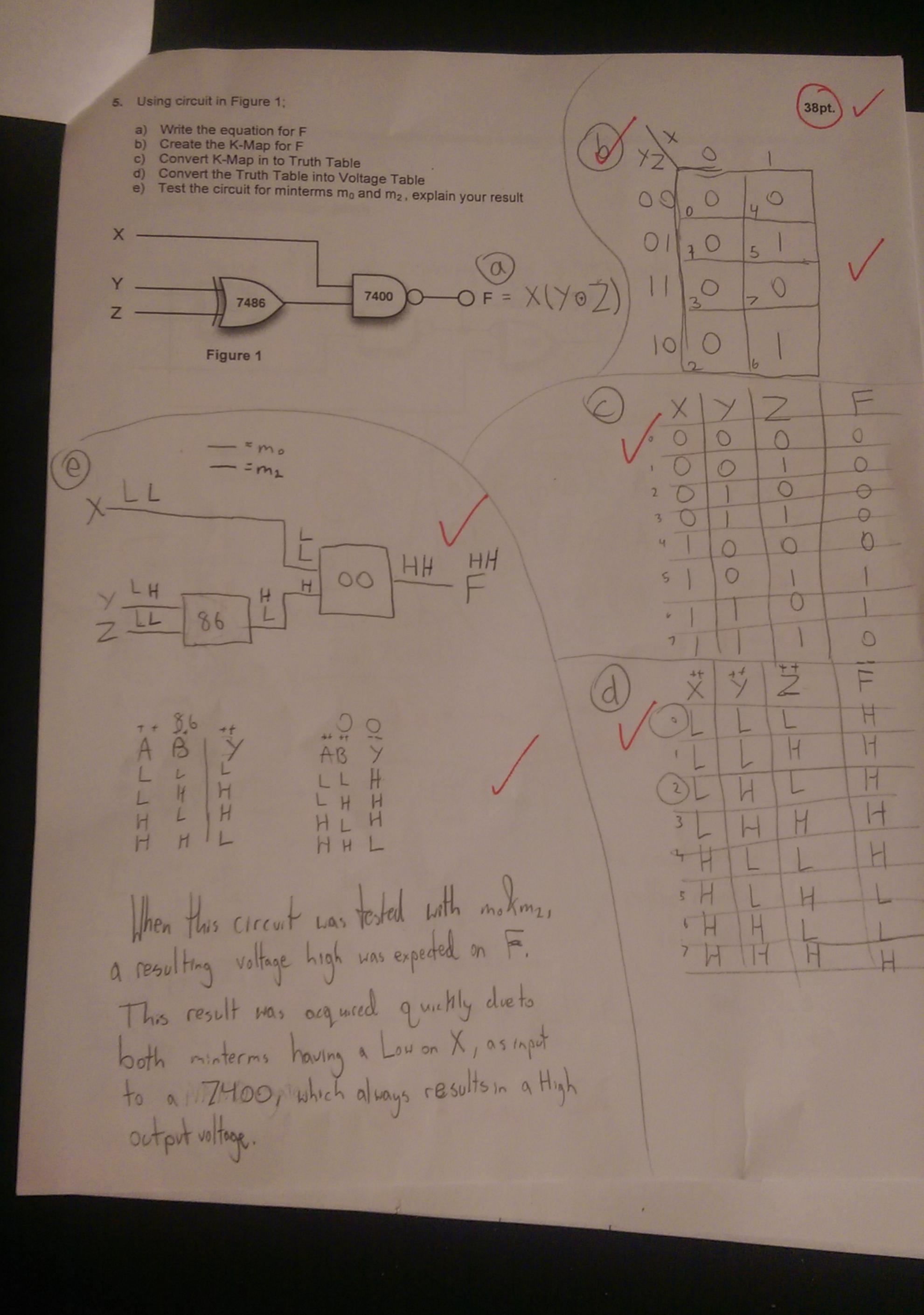
Dr. Özem TEST 1 March 11, 2015 Last Name First Name_ IMPORTAND REMINDERS: You Must show all your work, Must use Mix Logic notations, Write all your assumptions, TTL Manual is not a notebook! All given circuits uses the mix logic notations. Represent 291₁₀ in BCD 1001 0001 25 RI BCD RO RO RI RO RO Perform the following arithmetic operation in BCD 510 + 1710 = 2210 addition Result 5,0=001012 001012 0010 0010 +100012 17,0=100012 101102 3. How many 7400 load can the 74LS04 safely drive? One. Because 00 is a totem pole TTL so only from one 00 can be connected to the input of an 04. 8pt. 4. Convert the following equation in to PofS form. F = a'b'c' + a'bcF=abc+abc

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- a) Verify if the design, if it is not correct make necessary corrctions and calculations without changing any of the existing parts.
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- b) Write the equation for F
- c) Simplify the equation algebraickly.

