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Question 2 (20 points): a)

Find the  $(r-1)$ 's and  $r$ 's complements of the following numbers in the indicated

bases. (10 pts.) i.  $(4190)_{10}$

. 9's complement of 4190 =

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5809. 10's complement of  
4190 = 5810.

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2018 Note: Time yourself for 1 hour and 20 minutes.

Closed book, closed notes, open minds, Do not panic.

Good luck!! 1. (2 points)

Suppose that we are given a circuit that implements an arbitrary Boolean function

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ICS 151 Digital Logic

Design, Spring Quarter 2006,

Midterm Page 3 Q2: FSM

Design [20 points] Design a

state diagram for a

recognizer that recognizes

an input sequence 11101. It

has an input X and output Y.



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The recognizer sets the output to 1 ( $Y = 1$ ) for exactly one clock cycle if the last five values on the input  $X$  were 11101

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Practice Midterm exam ECE

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303: Advanced Digital Logic  
Design Suggested time: 75  
minutes You may not refer to  
your book or notes during  
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the whole exam before  
starting work. If there is  
time pressure, it is better

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– Midterm Exam (October 13th @ 5:30 pm) Presentation and clarity are very important! Show your procedure! PROBLEM 1 (20 PTS) a) Complete the following table. The decimal numbers are unsigned: (6

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pts.) Decimal BCD Binary

Reflective Gray Code 52

01010010 110100 101110. 34

00110100 100010 110011

**Exam January Fall 2016,  
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278 ...**

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EENG211/INFE211 – Digital  
Logic Design I. Fall  
2009-10. ... Digital Logic  
Design I - Midterm  
Examination 8. Simplify the  
following Boolean function  
 $F$ , together with the don't-  
care conditions  $d$ , and then

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express the simplified  
function in . a. sum of  
products and ( ? pts.) b.

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20%, Quizzes 20%, Final 40%:  
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Outline: 1. Week .  
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- Information Representation
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octal and hexadecimal]

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Fall 2009 – Logic Systems  
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Sections: 8:00 – 10:45 F,  
Woodward 125 Lecture:  
Section 001: 9:30 – 10:45,  
M/W, Woodward 140

**ECGR2181 – Logic Systems**

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