



**Term End Examination - May 2013**

**Course : CSE109 - Digital Logic**

**Slot: C2**

**Class NBR : 4109 / 4111 / 4112 / 4113 / 4116**

**Time : Three Hours**

**Max.Marks:100**

**PART – A (8 X 5 = 40 Marks)**

**Answer ALL Questions**

1. a) What is the base-4 equivalent of the Hex Number 3A7? [2+3]  
b) Show the value of all bits of a 12-bit register that hold the number equivalent to decimal 215 in (i) binary; (ii) octal; (iii) hexadecimal; (iv) binary-coded decimal (BCD).
2. Given the Boolean expression  $F = x'y + xyz'$ :  
a) Derive an algebraic expression for the complement  $F'$ .  
b) Show that  $F \cdot F' = 0$  and  $F + F' = 1$ .
3. Implement the four Boolean functions listed using three half-adder circuits. Use only block diagrams of half adder to show connections.  
$$D = A \oplus B \oplus C$$
$$E = A'BC + AB'C$$
$$F = ABC' + (A' + B')C$$
$$G = ABC$$
4. We want to design a combinational circuit that computes the function  $f(x) = x^2 + x + 2$  for a 2-bit  $x$ :  
How many bits do we need for the output?  
Derive the truth table and draw the logic circuit using NAND.
5. Explain BCD Ripple counter with a neat diagram.
6. The operation performed in an ALU is  $F = A + B'$ . Derive a table for the six relationships in terms of the status bit conditions E and C defined above.

# Logic Systems Nquestion Papers

**Michal Rosen-Zvi**



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