DIGITAL LOGIC DESIGN COE 202

QUIZ-2, Section 5

Saturday, November 29, 2008

Student Name and ID	Student Name	and ID.					
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<u>npli</u>	ificatio	n of Boolean Functions
1.		der the Boolean expression $F(x, y, z, t) = \Pi(0, 3, 7, 12, 14, 15)$ which is expressed as product xterms.
	a.	Determine the expression of $F(x, y, z, t)$ as sum of Minterms.
	b.	Determine the expression of $F'(x, y, z, t)$ as sum of Minterms.
	c.	Determine the expression of $F'(x, y, z, t)$ as product of Maxterms.
2.		der the Boolean expression $F(x, y, z) = \Sigma$ (0, 2, 3, 4, 6) which is expressed as sum of Minterms er each of the following questions:
	a.	Use the K-Map (only) to find a minimal expression of F(x, y, z) as sum of products (SOP).
	b.	Use the K-Map (only) to find the expression of $F(x, y, z)$ as a product of Maxterms.

c. Use the K-Map (Only) to find a minimal expression of F(x, y, z) as a product of sums (POS).