KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
Department of Electrical Engineering

EE200 Digital Logic Circuit Design	**Quiz # 2**	**22 October 2007**

Student's Name: **I.D.#:**

a.   **Simplify the following Boolean expression by algebraic manipulations:**
$$AB + A'BC + AB'C'$$

b.   **Use Karnaugh map to express the given Boolean function as a sum of minterms and a product of maxterms.**
$$F(A, B, C, D) = B'D + A'BC' + AB'C + ABC'$$
Simplify the function using the K-map in sum of products (SOP) for

Instructor : Dr. M.M. Dawoud   *(071)*

Score :	*/10*