BAHRIA UNIVERSITY, (Karachi Campus)

Department of Software Engineering

QUIZ - 3

COURSE TITLE:	**Computer Architecture & Logic Design**	COURSE CODE: CEN 220	
Class:	BSE[4]-3(A/B)	Shift:	
Course Instructor:	**Dr. Syed Samar Yazdani**	Time Allowed:	
Submission Date:		Max. Marks:	**10 Marks**

A combinational circuit has four inputs and one output. The output is equal to 1 when (1) all the inputs are equal to 1 when

(1) all the inputs are equal to 1 or

(2) none of the inputs are equal to 1 or

(3) an odd number of inputs are equal to 1

(a) Obtain the truth table.

(b) Find the simplified output function in sum of products

(c) Find the simplified output function in product of sums