KING FAHF UNIVERIST OF PETROLEM & MINERALS
ICS DEPT.
ICS 251 FOUNDATION OF COMPUTER SCIENCE
SECTION 1

QUIZ 1

DATE: 20/9/97

NAME:_____ **ST #:**_____

QUESTION 1

Let A = {1, 2, 5, 8, 11}. Identify each of the following as TRUE or FALSE.

(a) $\{1, 5\} \subseteq A$ _____ (b) $\{1,8\} \in A$ _____ (c) $\emptyset \subseteq A$ _____

(d) $A \subseteq \{11,2,5,1,8,4\}$_____ (e) $\{\{2\}\} \subseteq A$ _____

QUESTION 2

(a) If A = { 3, 7, 2} find P(A).
(b) What is $|A|$?
(c) What is $|P(A)|$?

QUESTION 3

Let U be the set of real numbers, $A = \{ x \mid x \text{ is a solution to } x^2 - 1 = 0\}$, and $B = \{ -1, 4\}$.
Compute
(a) $\overline{A}$ (b) $\overline{B}$ (c) $\overline{A \cup B}$ (d) $\overline{A \cap B}$

QUESTION 4

Let A, B and C be finite sets with $|A| = 6$, $|B| = 8$, $|C| = 6$, $|A \cup B \cup C| = 11$, $|A \cap B| = 3$, $|A \cap C| = 2$ and $|B \cap C| = 5$, find $|A \cap B \cap C|$