



SEC11013: DISCRETE STRUCTURE QUIZ (1)

Name : _____
Student ID : _____ Section : _____
Date : _____

Marks
20

Question 1

Let,

$$A = \{m \mid m = 5i - 2, \text{ for } i = 1, 2, 3\}$$

$$B = \{n \mid n = 3j + 1, \text{ for } j = 2, 4\}$$

$$C = \{p \mid p = 5r + 3, \text{ for } r = 1, 2\}$$

$$D = \{q \mid q = 3s, \text{ for } s = 1, 3, 5\}$$

List the elements of each of the following sets:

a) $A \cup B \cup C \cup D$

b) $(A \cap B) \times (C \times D)$

Question 2

Give truth tables for the expression $(r \vee q) \wedge ((\neg r \vee (p \wedge q)) \wedge (r \vee q))$