PAPER 1: DISCRETE MATHEMATICS-2016

Time: Three Hours]

(Maximum Marks: 50

Note: Attempt any two parts from each question. All questions carry equal marks.

UNIT - 1

- (a) Prove that p ∧ q ⇒ p ∨ q is a tautology.
- (b) If P is a statement such that for any statement Q, the statement P ∧ Q is false, then what do you conclude about the truth value of P?
 - (c) Write the following predicate into symbols and also write its negative in symbols:

"Every rational number is a real number."

UNIT - 2

- (a) Prove that the complement of each element in a Boolean algebra B is unique.
 - (b) If elements a and b of a Boolean algebra B satisfy the relation a ≤ b, then prove that :

$$a + bc = b(a + c)$$
 for $c \in B$

(c) The bulb inside a car of two doors is on when one of these doors is opened and it is also on when a switch of the desh board is pressed. Draw a diagram for the control path.

UNIT - 3

(a) Write the following funtions into disjunctive normal forms of 3 variables x, y, z:

(i)
$$x' + y'$$
 (ii) $xy' + x'y$ (iii) $(x + y)(x' + z')$

(b) Draw a binomial net for the flow function:

(i)
$$x.y + x'.y'$$
 (ii) $x.y + x.y' + x'.y$

(c) Design tree-not of third order in the 3 variables for the following function:

- 4. (a) If A and B have n elements in common, how many elements do A x B and B x A have in common?
 - (b) Prove that the relation

 $R = \{(x, y) : x - y \text{ is divisible by } n (n > 1)\}$ defined in the set of positive integers N, where n, x, y \in N is an equivalence relation.

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Ian Pickup

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