

Code: CT22
Time: 3 Hours

Subject: DISCRETE MATHEMATICAL STRUCTURES

Max. Marks: 100

MARCH 2011

NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.

- Q.1**
- a. Prove that $p \rightarrow (q \rightarrow r)$ and $(p \wedge \neg r) \rightarrow \neg q$ are logically equivalent.
 - b. In a survey, 2000 people were asked whether they read 'India Today' or 'Business Times'. It was found that 1200 read 'India Today', 900 read 'Business Times' and 400 read both. Find how many read at least one magazine and how many read neither.
 - c. What is the minimum number of students required in a class to be sure that at least 6 will receive the same grade if there are five possible grades A, B, C, D and F?
 - d. Determine whether the following is a valid argument:
I am happy if my program runs. A necessary condition for the program to run is it should be error free. I am not happy. Therefore the program is not error free.
 - e. Let m be a positive integer with $m > 1$. Determine whether or not the following relation is an equivalent relation: $R = \{(a, b) \mid a \equiv b \pmod{m}\}$
 - f. Define Euler path, Euler circuit, Hamiltonian path and Hamiltonian circuit.
 - g. Design a DFA for recognizing identifiers, unsigned integers and unsigned real numbers with fractions. (7 × 4)
- Q.2**
- a. Consider the set $A = \{2, 7, 14, 28, 56, 84\}$ and the relation $a \leq b$ if and only if a divides b . Give the Hasse diagram for the poset (A, \leq) .
 - b. Let L be a distributive lattice. Show that
if $a \wedge x = a \wedge y$ and $a \vee x = a \vee y$, then $x = y$ for same a . (9+9)
- Q.3**
- a. Translate the following into logical notation. Let the universe of discourse be the real numbers.
 - (i) For any value of x , x^2 is non negative.
 - (ii) For every value of x , there is some value of y such that $x, y = 1$.
 - (iii) There are positive values of x and y such that $x, y > 0$
 - (iv) There is a value of x such that if y is positive, then $x+y$ is negative.
 - b. Minimize the following Boolean expression and give its DNF.

$$F(A, B, C, D) = \pi(0, 1, 4, 5, 8, 12, 13, 14, 15)$$

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