

MCA (SEM-I)
Discrete Mathematics
(OCT-16)

QP CODE : 510300

Duration 3 hours

Total 100 marks

- N.B:
- (1) Question No. 1 is compulsory.
 - (2) Attempt any four out of remaining six questions.
 - (3) Assume any necessary data but justify the same.
 - (4) Figures to the right indicate marks.

1. a) (i) Obtain a disjunctive normal form of $P \vee (\neg P \rightarrow (Q \vee (Q \rightarrow \neg R)))$ [5]

(ii) Let $S = \{1, 2, 3, 4\}$ and $A = S \times S$. Define the following relation R on A .

$$(a, b)R(a', b') \text{ if and only if } \frac{a}{b} = \frac{a'}{b'}.$$

Show that R is an equivalence relation. Compute A/R . [5]

b) (i) Determine whether the set of real numbers with $a \cdot b = a + b + 2$ is a semigroup, a monoid or neither. If it is a monoid, specify the identity. If it is a semigroup or a monoid determine whether it is commutative. [5]

ii) The solution of the recurrence relation $C_0 a_n + C_1 a_{n-1} + C_2 a_{n-2} = f(n)$ is $4^n + 5^n + 6$. Given that $f(n) = 30$ for all n . Determine C_0, C_1, C_2 . [5]

2. a) (i) Use laws of logic to show the following equivalence. $(P \rightarrow Q) \wedge (R \rightarrow Q) = (P \vee R) \rightarrow Q$. [5]

ii) What is functionally complete set of connectives. Explain with two examples. [5]

b) Let $A = \{1, 2, 3, 5, 6, 10, 15, 30\}$ and R be relation defined by aRb if and only if "a divides b". Show that R is a partial order relation. Draw the Hasse diagram of (A, R) . [10]

3. a) (i) Using mathematical induction to prove that $3^n + 2n - 1$ is divisible by 4 for every positive integer n . [5]

ii) Show that the hypothesis "If you send me e-mail message, then I will finish writing the program", "If you do not send me an e-mail message, then I will go to sleep early" and "If I go to sleep early, then I will wake up feeling refreshed", leads to the conclusion "If I do not finish writing the program then I will wake up feeling refreshed". [5]

b) (i) Let the universe of discourse be $D = \{0, 1, 2, \dots, 9\}$. Let $Q(x, y)$ be the statement " $x + y = x \cdot y$ ". Determine the truth values of the following.

Question Paper Discrete Mathematics 1 Semester

Yan Bai



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DISCRETE MATHEMATICS Dr. Vinay Kumar, 2018-06-06 Description This book is intended to be a textbook for the student pursuing B E B Tech in Computer Science or MCAM Tech and NIELIT B C Level or equivalent courses Topics included are self contained Sequence is maintained in such a way that no prerequisite is necessary This book contains topics ranging from set relation recurrence relation generating function posets lattice methods of proofs Quine McKluskey Method Floyd Warshall s algorithm finite automata bipartite graph etc Only necessary theorems have been included and wherever required their applicability has been demonstrated using appropriate examples Whenever required a diagram is used to make the concept easily understood to the reader It contains good number of solved examples and exercises for hands on practice Table of Contents Chapter 1 Set Chapter 2 Relation Chapter 3 Number Theory Chapter 4 Function Chapter 5 Predicate Calculus Chapter 6 Poset Chapter 7 Lattice Chapter 8 Finite Boolean Algebra Chapter 9 Recursive Equations Chapter 10 Generating Function Chapter 11 Method Of Proof Chapter 12 Permutation Chapter 13 Combination Chapter 14 Group Chapter 15 Cyclic Group Chapter 16 Permutation Chapter 17 Matrix Chapter 18 Graph Chapter 19 Path and Circuit Chapter 20 Graph Algorithms Chapter 21 Formal Language Chapter 22 Finite Automata Chapter 23 Galois Field

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