

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

Michael Hoelscher



Question Paper Discrete Mathematics 1 Semester:

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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in the First Two Years Anthony Ralston, 1989 *MAA Notes*, 1983 **Resources in Education**, 1999-10 **Twentieth**

Anniversary Volume: Discrete & Computational Geometry Jacob E. Goodman, János Pach, Richard Pollack, 2009-03-02

While we were busy putting together the present collection of articles celebrating the twentieth birthday of our journal *Discrete* the complexity hardness of a variety of geometric algorithms depends on McMullen's upper bound theorem on convex polytopes or on the maximum number of halving lines determined by $2n$ points in the plane that is the number of different ways a set of points can be cut by a straight line into two parts of the same size proximity questions stemming from several application areas turn out to be intimately related to Erdős's classical questions on the distribution of distances determined by n points in the plane or in space On the other hand the algorithmic point of view has fertilized several fields of convexity and of discrete geometry which had lain fallow for some years and has opened new research directions

Continuum Models and Discrete Systems François Willot, Justin Dirrenberger, Samuel Forest, Dominique Jeulin, Andrej V. Cherkaev, 2024-09-23 The present book contains the proceedings of the 14th International Symposium on Continuum Models and Discrete Systems CMDS14 held in Paris in June 2023 It contains 21 contributions that cover a broad range of topics in the wide field of mechanics and physics of heterogeneous media for discrete and continuous systems from image analysis to models of random structures and to homogenization The sessions in the CMDS conference series cover in particular the modeling of complex heterogeneous systems and metamaterials structures and composites with extreme properties deformable solids with microstructures generalized continua fracture and defect dynamics fatigue design of structured and architected materials micro and nanostructures thermodynamics transport theory and multiphysics

coupling and methods ranging from homogenization theories to optimal design and machine learning frameworks Papers in the present volume are organized according to the following six main topics probabilistic models homogenization solid mechanics architected materials optics and metamaterials machine learning methods

Machine Learning and Principles and Practice of Knowledge Discovery in Databases Rosa Meo, Fabrizio Silvestri, 2024-12-31 The five volume set CCIS 2133 2137 constitutes the refereed proceedings of the workshops held in conjunction with the Joint European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2023 which took place in Turin Italy during September 18 22 2023 The 200 full papers presented in these proceedings were carefully reviewed and selected from 515 submissions The papers have been organized in the following tracks Part I Advances in Interpretable Machine Learning and Artificial Intelligence Joint Workshop and Tutorial BIAS 2023 3rd Workshop on Bias and Fairness in AI Biased Data in Conversational Agents Explainable Artificial Intelligence From Static to Dynamic ML Law and Society Part II RKDE 2023 1st International Tutorial and Workshop on Responsible Knowledge Discovery in Education SoGood 2023 8th Workshop on Data Science for Social Good Towards Hybrid Human Machine Learning and Decision Making HLDM Uncertainty meets explainability in machine learning Workshop Deep Learning and Multimedia Forensics Combating fake media and misinformation Part III XAI TS Explainable AI for Time Series Advances and Applications XKDD 2023 5th International Workshop on eXplainable Knowledge Discovery in Data Mining Deep Learning for Sustainable Precision Agriculture Knowledge Guided Machine Learning MACLEAN MACHine Learning for EArth ObservatioN MLG Mining and Learning with Graphs Neuro Explicit AI and Expert Informed ML for Engineering and Physical Sciences New Frontiers in Mining Complex Patterns Part IV PharML Machine Learning for Pharma and Healthcare Applications Simplification Compression Efficiency and Frugality for Artificial intelligence Workshop on Uplift Modeling and Causal Machine Learning for Operational Decision Making 6th Workshop on AI in Aging Rehabilitation and Intelligent Assisted Living ARIAL Adapting to Change Reliable Multimodal Learning Across Domains AI4M AI for Manufacturing Part V Challenges and Opportunities of Large Language Models in Real World Machine Learning Applications Deep learning meets Neuromorphic Hardware Discovery challenge ITEM IoT Edge and Mobile for Embedded Machine Learning LIMBO LearnIng and Mining for BLockchains Machine Learning for Cybersecurity MLCS 2023 MIDAS The 8th Workshop on MIning DAta for financial applicationS Workshop on Advancements in Federated Learning

Q-Bibliography of Mathematical Logic Heinz-Dieter Ebbinghaus, 2013-06-29 Gert H M ller The growth of the number of publications in almost all scientific areas as in the area of mathematical logic is taken as a sign of our scientifically minded culture but it also has a terrifying aspect In addition given the rapidly growing sophistica tion specialization and hence subdivision of logic researchers students and teachers may have a hard time getting an overview of the existing literature partic ularly if they do not have an extensive library available in their neighbourhood they simply do not even know what to ask for More specifically if someone vaguely knows that something vaguely connected

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