

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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IETE Technical Review ,2005 **IETE Journal of Research** ,2003 **WAVE PROPAGATION AND ANTENNA ENGINEERING** KUMAR, SANJAY, SHUKLA, SAURABH, 2015-12-14 The book is primarily designed to cater to the needs of undergraduate and postgraduate students of Electronics and Communication Engineering and allied branches It also caters for fundamental requirements of professionals working on design and development of antenna and wave propagation related equipment either in research laboratories or industries or academic institutions elsewhere The book has been written with intent to grasp the basic understanding of theoretical as well as practical aspects of electromagnetic wave propagation and antenna engineering The text has been aptly scripted considering the requirements of average students who can easily grasp and comprehend the basics of wave propagation and radiation mechanism of varieties of antennas coupled with their critical functionalities utilities advantages disadvantages without any external assistance of teachers or other reference books The

book broaches very well on practical methods of parametric measurements of antenna with right measuring test equipment and associated tools The last chapter of the book is dedicated to advance technology adopted in design and development of modern antenna Key features A fairly large number of well labelled diagrams to provide practical understanding of the concepts The placement of numericals at appropriate places develops confidence among readers and enthruses them further to read in depth to crack any regular or competitive examinations Chapter summary highlights important points for quick recap and revision before examination Well crafted multiple choice questions with answers at the end of each chapter to stimulate thought process and prepare better for viva voce and competitive examinations Appropriate number of unsolved numerical problems with answers to improve problem solving skill of students

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Advances in Information Retrieval Claudia Hauff, Craig Macdonald, Dietmar Jannach, Gabriella Kazai, Franco Maria Nardini, Fabio Pinelli, Fabrizio Silvestri, Nicola Tonellotto, 2025-04-03 The five volume set LNCS 15572 15573 15574 15575 and 15576 constitutes the refereed conference proceedings of the 47th European Conference on Information Retrieval ECIR 2025 held in Lucca Italy during April 6 10 2025 The 52 full papers 11 findings 42 short papers and 76 papers of other types presented in these proceedings were carefully reviewed and selected from 530 submissions The accepted papers cover the state of the art in information retrieval and recommender systems user aspects system and foundational aspects artificial intelligence and machine learning applications evaluation new social and technical challenges and other topics of direct or indirect relevance to search and recommendation

Foreign Affairs Edmund Dene Morel, Helena Maria Swanwick, 1929

Knowledge Recommendation Systems with Machine Intelligence Algorithms Jarosław Protasiewicz, 2023-09-30 Knowledge recommendation is an timely subject that is encountered frequently in research and information services A compelling and urgent need exists for such systems the modern economy is in dire need of highly skilled professionals researchers and innovators who create opportunities to gain competitive advantage and assist in the management of financial resources and available goods as well as conducting fundamental and applied research more effectively This book takes readers on a journey into the world of knowledge recommendation and of systems of knowledge recommendation that use machine intelligence algorithms It illustrates knowledge recommendation using two examples The first is the recommendation of reviewers and experts who can evaluate manuscripts of academic articles or of research and development project proposals The second is innovation support which involves bringing science and business together by recommending information that pertains to innovations projects prospective partners experts and conferences meaningfully The book also describes the selection of the algorithms that transform data into information and then into knowledge which is then used in the information systems More specifically recommendation and information extraction algorithms are used to acquire data classify publications identify disambiguate their authors extract keywords evaluate whether enterprises are innovative and recommend knowledge This book comprises original work and is unique in many ways The systems and algorithms it presents are informed by contemporary solutions described in the literature including many compelling novel and original aspects The new and promising directions the book presents as well as the techniques of machine learning applied to knowledge recommendation are all original

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