

**PJ-582**

1 Semester M.C.A. Examination, February - 2020
(CBCS Scheme)

COMPUTER SCIENCE**MCA - 104T : Discrete Mathematics**

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any five questions. Each question carries six marks.

5×6=30

1. (a) Suppose $A, B \subseteq \mathbb{Z} \times \mathbb{Z}$ with $A = \{(x, y) | y = 5x - 1\}$, $B = \{(x, y) | 3x - y = -7\}$. Find $\overline{A \cup B}$. 3+3
(b) For any set A , prove that $A \times \phi = \phi \times A = \phi$.
2. (a) Let $A = \{1, 2, 3, 4, 6, 8, 12\}$. On A , define the partial ordering relation R by xRy if and only if x divides y . Draw the Hasse diagram for R . 3+3
(b) Let $f, g : \mathbb{R} \rightarrow \mathbb{R}$, are defined by $f(x) = 3x + 7$ and $g(x) = x(x^2 - 1)$ for all $x \in \mathbb{R}$. Verify that f is one-one but g is not.
3. Use mathematical induction to prove that $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$ where $n \in \mathbb{Z}^+$. 6
4. Prove that $R \rightarrow S$ is a valid conclusion from the premises $P \rightarrow (Q \rightarrow S)$, $\neg R \vee P$, and Q . 6
5. A collection of 10 electric bulbs contain 3 defective ones. 2+2+2
(i) In how many ways can a sample of 4 bulbs be selected?
(ii) In how many ways can a sample of four bulbs be selected which contain 2 good ones and 2 defective ones?
(iii) In how many ways can the sample of 4 bulbs be selected so that either the sample contains 3 good ones and 1 defective ones or 1 good and 3 defective ones?
6. Show that the open interval $(0, 1)$ is uncountable. 6
7. Prove that every set of 37 positive integers contain at least two integers that leave the same remainders upon division by 36. 6

P.T.O.

Mca 2nd Sem Previous Year Question Paper

Prof. (Dr.) Bibhuti Sharan,Vijendra Rai

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understanding the concepts it s about mastering the examination pattern practicing time management and gaining the confidence to face complex questions with ease One of the best ways to achieve this is by going through previous years question papers This book includes question papers from various subjects covered in the MCA curriculum including programming languages algorithms database management systems software engineering data structures computer networks and more By working through these unsolved papers students can Understand the Examination Pattern IGNOU s question papers have a specific structure with questions ranging from multiple choice to short answer and long essay type questions By familiarizing themselves with the pattern students can plan their time effectively during the exam Identify Important Topics Previous question papers are an excellent indicator of frequently asked topics By solving these papers students can focus on key areas that have a higher probability of appearing in the exams Enhance Problem Solving Skills The unsolved papers encourage students to think critically and apply their theoretical knowledge to practical problems This process of self discovery helps in strengthening core concepts and improving analytical skills Practice Time Management One of the biggest challenges in any exam is managing time effectively By solving previous years papers under timed conditions students can practice completing the papers within the given time frame helping them avoid last minute rushes during the actual exams Self Evaluate After attempting the unsolved papers students can cross check their answers with textbooks or online resources This process of self evaluation is invaluable in identifying areas of weakness and focusing on them before the exams

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DATA STRUCTURES & ANALYSIS OF ALGORITHMS Prof. (Dr.) Bibhuti Sharan,Vijendra Rai,2025-04-25 MCA SECOND SEMESTER According to the New Syllabus of Dr A P J Abdul Kalam Technical University Lucknow AKTU as per NEP 2020

Database Management System (DBMS)A Practical Approach Rajiv Chopra,2010 Many books on Database Management Systems

DBMS are available in the market they are incomplete very formal and dry My attempt is to make DBMS very simple so that a student feels as if the teacher is sitting behind him and guiding him This text is bolstered with many examples and Case Studies In this book the experiments are also included which are to be performed in DBMS lab Every effort has been made to alleviate the treatment of the book for easy flow of understanding of the students as well as the professors alike This textbook of DBMS for all graduate and post graduate programmes of Delhi University GGSIPU Rajiv Gandhi Technical University UPTU WBTU BPUT PTU and so on The salient features of this book are 1 Multiple Choice Questions 2 Conceptual Short Questions 3 Important Points are highlighted Bold faced 4 Very lucid and simplified approach 5 Bolstered with numerous examples and CASE Studies 6 Experiments based on SQL incorporated 7 DBMS Projects added Question Papers of various universities are also included

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Computer Based Numerical & Statistical Techniques Goyal,2005

Management Information Systems Anurag Malik,2005

Operating System (A Practical App) Rajiv Chopra,2009 For the Students of B E B Tech M E M Tech Operating Systems A Practical Approach which covers the syllabi of B Tech B E CSE IT M Tech M E CSE IT BCA MCA of many universities of India like Delhi University GGSIPU Delhi UPTU Lucknow WBUT RGPV MDU etc

OPERATING SYSTEMS Dr. Robins Rastogi,Mohd. Sharjeel Lari,2025-04-25 MCA SECOND SEMESTER According to the New Syllabus of Dr A P J Abdul Kalam Technical University Lucknow AKTU as per NEP 2020

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English for Engineering and Management Sutapa Banerjee,2006 The teaching assignment at an institute of Management and technology with a completely different domain threw open a challenge to me yet the mammoth and challenging task was stimulating Henceforth ensued the thorough probe into this vast expanse called communication The Result has been thhis book Designed according to the syllabus laid down by the West bengal University of Technology and other Technical Universities of India this book is an endeavour to bring out a simple framework with an aim to enhance the communication skill of the students with the gadgetry help in the Language Laboratory

IGNOU BCA Introduction to

Database Management Systems Previous Year Unsolved Papers MCS 023 Manish Soni, 2024-11-13

The fields of Database Management Systems DBMS represent a cornerstone of modern computing serving as the backbone for data storage retrieval and management across various industries As organizations increasingly rely on data driven decision making the significance of robust database management cannot be overstated Recognizing this importance the Indira Gandhi National Open University IGNOU has integrated Database Management Systems into its curriculum challenging students to master both theoretical foundations and practical applications This book IGNOU Introduction to Database Management Systems MCS 203 Previous Years Unsolved Papers is a thoughtfully curated compilation of unsolved question papers from previous years It is designed to be an indispensable resource for students preparing for their exams in this subject The primary objective of this book is to provide students with a comprehensive tool to self assess their understanding identify areas for improvement and refine their problem solving skills We believe that practicing with previous years question papers is one of the most effective strategies for exam preparation It not only familiarizes students with the types and formats of questions they are likely to encounter but also deepens their understanding of the subject matter by applying concepts to real world scenarios By working through these unsolved papers students will be able to gauge their readiness enhance their time management during exams and build confidence in tackling challenging questions The decision to present these papers unsolved was deliberate We encourage students to engage actively with the material think critically and explore various approaches to solving the problems This method fosters independent learning and ensures that students are well prepared to adapt to diverse question formats and complexities during their actual exams This book covers a broad spectrum of topics within Database Management Systems including relational models SQL database design normalization transaction management and security issues Each paper has been meticulously selected to ensure comprehensive coverage of the syllabus providing students with a thorough understanding of the core concepts essential for success in their exams We hope that this book will not only assist students in their academic journey but also inspire them to explore the exciting world of database management systems further As data continues to play a pivotal role in shaping the future the knowledge and skills acquired in Database Management Systems will undoubtedly be invaluable We would like to extend our sincere gratitude to the faculty members and students of IGNOU who have contributed to the development of this book Your feedback and insights have been instrumental in ensuring that this book meets the needs of today s learners Wishing you success in your studies and your future endeavours in the world of Database Management Systems

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Table of Contents Mca 2nd Sem Previous Year Question Paper

1. Understanding the eBook Mca 2nd Sem Previous Year Question Paper
 - The Rise of Digital Reading Mca 2nd Sem Previous Year Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mca 2nd Sem Previous Year Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mca 2nd Sem Previous Year Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mca 2nd Sem Previous Year Question Paper
 - Personalized Recommendations
 - Mca 2nd Sem Previous Year Question Paper User Reviews and Ratings
 - Mca 2nd Sem Previous Year Question Paper and Bestseller Lists

5. Accessing Mca 2nd Sem Previous Year Question Paper Free and Paid eBooks
 - Mca 2nd Sem Previous Year Question Paper Public Domain eBooks
 - Mca 2nd Sem Previous Year Question Paper eBook Subscription Services
 - Mca 2nd Sem Previous Year Question Paper Budget-Friendly Options
6. Navigating Mca 2nd Sem Previous Year Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Mca 2nd Sem Previous Year Question Paper Compatibility with Devices
 - Mca 2nd Sem Previous Year Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mca 2nd Sem Previous Year Question Paper
 - Highlighting and Note-Taking Mca 2nd Sem Previous Year Question Paper
 - Interactive Elements Mca 2nd Sem Previous Year Question Paper
8. Staying Engaged with Mca 2nd Sem Previous Year Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mca 2nd Sem Previous Year Question Paper
9. Balancing eBooks and Physical Books Mca 2nd Sem Previous Year Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mca 2nd Sem Previous Year Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mca 2nd Sem Previous Year Question Paper
 - Setting Reading Goals Mca 2nd Sem Previous Year Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mca 2nd Sem Previous Year Question Paper
 - Fact-Checking eBook Content of Mca 2nd Sem Previous Year Question Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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