

**MASTER OF COMPUTER
APPLICATIONS (MCA) (NEW)**

Term-End Examination

December, 2021

**MCS-218 : DATA COMMUNICATION AND
COMPUTER NETWORKS**

Time : 3 Hours

Maximum Marks : 100

Note : (i) Question No. 1 is compulsory and carries 40 marks.

(ii) Attempt any **three** questions from the rest.

1. (a) Find the CRC for the data polynomial $x^8 + x^7 + x^5 + x^2 + 1$, with the generator polynomial $x^3 + x + 1$. 3
- (b) What is a Local Area Network (LAN) ? What are the typical characteristics of a LAN ? 5

P. T. O.

[3]

MCS-218

- (c) Explain the concept of circuit and packet switching, with a suitable example. 5
- (d) Compare star and tree topology in detail with a suitable diagram. 5
3. (a) What is a Hamming Code ? How many redundant bits are required to identify errors in a character of 7 bits. Also mention the specified positions for inserting these redundant bits. 5
- (b) What is meant by pure ALOHA ? Calculate the throughput of slotted ALOHA protocol. 5
- (c) Discuss IEEE 802.11 protocol in detail with a suitable diagram. 10
4. (a) With reference to connection oriented services, what are the steps in connection establishment and termination ? 5

P. T. O.

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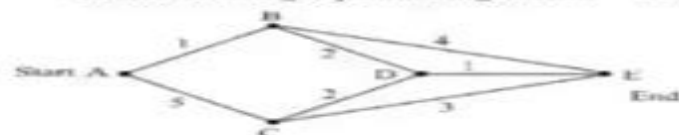
MCS-218

- (c) Write the characteristics of transmission and propagation delays. 4
- (d) Differentiate between congestion control and flow control. 4
- (e) Compare layer 2 and layer 3 switches. 5
- (f) Explain key generation algorithm for RSA. Explain its process with an example. 6
- (g) Discuss the QAM (Quadrature Amplitude Modulation) technique. Draw 8-QAM constellation diagram. 7
- (h) Draw IPv4 header structure and explain the significance of flags. 6
2. (a) Which frequency bands are used for AM, FM and Radar bands ? Write the relationship between tower height and distance between repeaters. 5
- (b) Explain why PAM is a necessary prerequisite to PCM ? What would be the minimum sampling interval needed for reconstructing a signal with highest frequency of 1 kHz ? 5

[4]

MCS-218

- (b) What is Dijkstra's algorithm for shortest path ? Find the best route between points 'A' and 'E' using Dijkstra's algorithm. 10



- (c) What are the classes in IP addressing ? Explain the rules to determine the address class. 5
5. (a) What is Multiplexing ? Show the upward multiplexing with the help of a diagram. 5
- (b) Discuss the contents of a digital certificate. Explain the importance of digital certificate. 5
- (c) Explain the concept of RPC in detail. Draw a diagram to explain RPC. 10

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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

The Hindu Index ,2005 *IGNOU MCA Previous Year Unsolved Question Papers Part 1* Manish Soni,2024-09-24 The IGNOU MCA Previous Year Unsolved Question Papers Part 1 is a valuable study resource for students pursuing the Master of Computer Applications MCA at Indira Gandhi National Open University IGNOU This book is the first in a series offering a collection of unsolved question papers from previous years that cover the initial subjects of the MCA curriculum It is designed to help students practice and deepen their understanding of fundamental concepts in programming software engineering database management and more By working through these unsolved papers students can get familiar with the exam pattern identify key topics and enhance their problem solving skills This book is an essential tool for effective exam preparation helping students build a strong foundation as they progress through their MCA studies

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Professional skills and ethics are vital in shaping competent ethical professionals equipped to navigate today's complex work environment. These subjects are integral to modern education, instilling in students the ability to act with integrity, responsibility, and sound judgment in their careers. Recognizing their importance, the Indira Gandhi National Open University (IGNOU) has made these topics a core part of its curriculum, pushing students to master both theoretical concepts and practical applications. This book, *IGNOU MCA MCS 214 Professional Skills and Ethics Previous Year Solved Papers*, is a carefully curated compilation of unsolved question papers from previous years. It serves as an essential resource for students preparing for exams, helping them assess their understanding, identify weaknesses, and improve their problem-solving skills. Practicing with past papers is a proven method for effective exam preparation. It not only familiarizes students with the types and formats of questions but also deepens their understanding by applying concepts to practical scenarios. By working through these unsolved papers, students can gauge their exam readiness, enhance time management, and build confidence in tackling challenging questions. The decision to leave these papers unsolved encourages active engagement, critical thinking, and exploration of multiple problem-solving approaches. This method fosters independent learning, better preparing students for the variety of questions they may face in exams. Covering a broad spectrum of topics, including communication skills, leadership, workplace ethics, and legal considerations, this book provides thorough coverage of the syllabus, ensuring students grasp the essential concepts for exam success. We hope this book supports your academic journey and inspires deeper exploration into professional skills and ethics. The knowledge gained here will undoubtedly be invaluable in shaping your future career. Wishing you success in your studies and future endeavours in the professional world.

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The *IGNOU MCA Data Science Big Data Previous Year Unsolved Question Papers Book* is a crucial study aid for students enrolled in the Master of Computer Applications (MCA) program at Indira Gandhi National Open University (IGNOU). This book focuses on the Data Science Big Data course, compiling a collection of unsolved question papers from previous years. It is designed to help students practice and enhance their understanding of key concepts in data science and big data technologies. By working through these papers, students can familiarize themselves with the exam pattern, develop problem-solving strategies, and identify important topics. This book is an essential resource for thorough preparation and success in the Data Science Big Data course.

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Table of Contents Ignou Mca Semester Question Papers With Answers

1. Understanding the eBook Ignou Mca Semester Question Papers With Answers
 - The Rise of Digital Reading Ignou Mca Semester Question Papers With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ignou Mca Semester Question Papers With Answers
 - 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 Ignou Mca Semester Question Papers With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ignou Mca Semester Question Papers With Answers
 - Personalized Recommendations
 - Ignou Mca Semester Question Papers With Answers User Reviews and Ratings
 - Ignou Mca Semester Question Papers With Answers and Bestseller Lists
5. Accessing Ignou Mca Semester Question Papers With Answers Free and Paid eBooks
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 - Adjustable Fonts and Text Sizes of Ignou Mca Semester Question Papers With Answers
 - Highlighting and Note-Taking Ignou Mca Semester Question Papers With Answers
 - Interactive Elements Ignou Mca Semester Question Papers With Answers
 8. Staying Engaged with Ignou Mca Semester Question Papers With Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ignou Mca Semester Question Papers With Answers
 9. Balancing eBooks and Physical Books Ignou Mca Semester Question Papers With Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ignou Mca Semester Question Papers With Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ignou Mca Semester Question Papers With Answers
 - Setting Reading Goals Ignou Mca Semester Question Papers With Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ignou Mca Semester Question Papers With Answers
 - Fact-Checking eBook Content of Ignou Mca Semester Question Papers With Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
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