



NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91, Cadastral Zone,
Nnamdi Azikiwe Expressway, Jabi, Abuja

**FACULTY OF SCIENCES
APRIL, 2019 EXAMINATIONS**

Course Code: CIT411
Course Title: Microcomputers and Microprocessors
Course Credit: Unit: 2
Time Allowed: 2 Hours
Instruction: Answer Question 1 and any other three questions

Question 1

- (a) Outline any four types of interrupts – (6 marks)
- (b) Explain briefly the three types of a typical 80x86 processor - (7.5 marks)
- (c) Outline the actions performed by the microcontroller when an interrupt is triggered? - (5 marks)
- (d) How does Harvard architecture differ from Von Neumann architecture? - (4 marks)
- (e) What is a port? - (2.5 marks)

Question 2

- (a) Write an assembly program code each for an input and output operation - (12 marks)
- (b) In what way is the assembly language beneficial – (3 marks)

Question 3

- (a) Briefly discuss the technological innovations of microprocessors - (8 marks)
- (b) What is co-processor trap? How is co-processor instruction different from CPU instruction? - (5 marks)
- (c) What is a microcomputer? - (2 marks)

Question 4

- (a) Enumerate any five different types of applications for microcontrollers and microprocessors? - (10 marks)
- (b) Enumerate any four benefits of assembly language (5 marks)

Question 5

- (a) From the historical development of the microprocessors, mention the examples of microprocessors from leading corporations. - (3 marks)
- (b) Briefly explain the subcategories of computer architecture. – (9 marks)
- (c) Outline the data manipulation operations of the microprocessor - (3 marks)

National Open University Past Question

Manish Soni



National Open University Past Question:

MH-SET Paper 1 Guide for Assistant Professor with Past Questions Disha Experts,2020-02-29 IGNOU Operating System Previous Years Solved Papers Manish Soni,2024-11-13

Welcome to the collection of solved previous year papers for the Indira Gandhi National Open University IGNOU operating system course This compilation is designed to assist students in their preparation for IGNOU s operating system examinations by providing a comprehensive set of solved papers from previous years Operating systems are the backbone of modern computing serving as the bridge between hardware and software Understanding their principles and practical applications is essential for any student pursuing a career in computer science or information technology As such IGNOU offers a well structured course on operating systems that covers fundamental concepts algorithms and practical aspects This collection of solved papers is intended to be a valuable resource for students looking to enhance their grasp of operating systems It not only provides answers to past examination questions but also serves as a guide to the types of questions and the level of understanding expected from IGNOU students

Key Features

Extensive Theoretical Content The book covers the entire spectrum of robotics topics from basic principles to advanced techniques Each chapter is structured to build upon the previous one ensuring a logical progression and deep understanding of the subject matter You will explore topics such as kinematics dynamics control systems sensors actuators and artificial intelligence in robotics

Online Test Papers To reinforce your learning we provide a series of online test papers that mimic real world scenarios and challenges These tests are designed to evaluate your understanding and identify areas that may require further study helping you to continually improve your knowledge and skills

Interactive Exercises The book includes a variety of exercises such as multiple choice questions true false statements and problem solving tasks These exercises are strategically placed throughout the chapters to reinforce key concepts and test your knowledge

Video Tutorials Understanding complex robotics concepts can sometimes be challenging through text alone Our book includes links to a series of video tutorials that provide visual and auditory explanations of intricate topics These videos created by experts are intended to complement the written material offering a more immersive learning experience

Practical Applications Each chapter features real world examples and case studies that illustrate how robotics is applied across different industries These examples help bridge the gap between theory and practice demonstrating the practical relevance of robotics skills and how they can be applied to solve real world problems

Self Assessment Tools At the end of each chapter self assessment questions and exercises allow you to test your understanding and track your progress These tools are invaluable in helping you gauge your readiness and build confidence as you advance through the book

Conclusion We encourage you to use these solved papers as a supplement to your own study and practice By reviewing the solutions and applying the knowledge gained you can improve your performance and readiness for the examinations We wish you the best of luck in your studies and hope that this compilation proves to be a useful tool in your journey to mastering the intricacies of operating systems and achieving

success in your IGNOU course *IGNOU BCA Discrete Mathematics Previous Year Unsolved Papers MCS 013* Manish Soni,2024-11-13 Discrete Mathematics is a foundational pillar in computer science and mathematics providing essential tools and frameworks for logical reasoning algorithm design and data structure development For students pursuing the BCA program at the Indira Gandhi National Open University IGNOU mastering this subject is vital for academic and professional success With this in mind IGNOU BCA Discrete Mathematics Previous Year Unsolved Papers MCS 013 has been compiled to offer learners a practical and focused approach to exam preparation by engaging them directly with real unsolved questions from past examinations This book serves as more than just a repository of previous year question papers it is a challenge driven resource designed to strengthen problem solving skills and deepen conceptual understanding The unsolved format encourages independent thinking critical analysis and active learning By working through these carefully selected questions students can enhance their familiarity with exam patterns identify key topics and build the confidence necessary to tackle even the most complex problems in discrete mathematics We are grateful to the educators and learners whose feedback and insight have helped shape this book and we hope it becomes a valuable companion in your academic journey **IGNOU MCA Discrete Mathematics Previous Years Unsolved Papers MCS 212** Manish Soni,2024-11-13 Welcome to Discrete Mathematics Theory Problems and Solutions a comprehensive resource designed to enhance your understanding of this fundamental area of mathematics This book is specifically tailored for students educators and enthusiasts seeking to deepen their grasp of discrete mathematics through the lens of unsolved and challenging questions This book seeks to bridge that gap By presenting a collection of IGNOU MCS 212 PREVIOUSLY UNSOLVED QUESTION PAPERS MCA NEW we provide a unique opportunity to engage with the material in a new and dynamic way Each question is carefully selected to challenge and provoke thought encouraging a deeper exploration of the subject matter Our goal is not only to present problems but to foster a deeper appreciation for the beauty and utility of discrete mathematics We hope that by working through these questions you will develop a stronger intuition for the subject and acquire problem solving skills that will serve you well in both academic and professional contexts We extend our heartfelt gratitude to the numerous educators and students who have contributed to the evolution of this book Their insights and feedback have been invaluable in shaping its content We also acknowledge the efforts of the authors and researchers whose work has inspired the selection of these problems As you embark on this journey through the pages of Discrete Mathematics Theory Problems and Solutions we encourage you to approach each problem with curiosity and determination Embrace the challenge and allow the process of solving these questions to deepen your understanding and appreciation of discrete mathematics May this book serve as a valuable tool in your educational endeavors and inspire a lifelong interest in the fascinating world of discrete mathematics IGNOU Software Engineering Previous 10 Years Solved Papers Manish Soni,2024-11-13 Welcome to the world of software engineering at the Indira Gandhi National Open University IGNOU This book presents a valuable collection of solved papers

from the past 10 years offering students and learners a comprehensive resource to aid in their journey of mastering software engineering concepts and techniques Software engineering is a dynamic field that continually evolves reflecting the rapid advancements in technology and the growing demands of industry and society At IGNOU we are committed to providing accessible high quality education in this discipline ensuring that our students are well prepared for the challenges of the software industry This book is a testament to our dedication to excellence in software engineering education It includes a wide range of solved papers covering topics such as software development methodologies software design software testing and project management Each solved paper is accompanied by detailed explanations and insights helping you understand the problem solving process and the underlying concepts We believe that by studying these past papers you will not only be better equipped to succeed in your examinations but will also gain a deeper understanding of the principles and practices that underpin software engineering Whether you are an IGNOU student a software professional looking to enhance your skills or anyone interested in software engineering this book is a valuable resource We encourage you to approach these papers with curiosity dedication and a passion for learning By doing so you will be better prepared to face the challenges and opportunities of the software engineering world We wish you the best of success in your academic and professional pursuits

Why Solved Papers Matter Solved papers are an invaluable resource for any student They provide insights into the patterns and types of questions asked in examinations help you understand the depth and breadth of the curriculum and allow you to practice with real previously asked questions By working through these papers you will gain a better understanding of the exam format and can build confidence in your preparation As you browse through this book you ll find solutions to questions from various software engineering courses offered by IGNOU Our team of experienced software engineering educators and professionals has worked diligently to provide clear and accurate solutions ensuring that you can learn not only from the questions but also from the way they are answered Each solution is accompanied by detailed explanations to help you understand the concepts methodologies and best practices in software engineering

Maximizing Your Exam Success While this book is a valuable resource for your exam preparation remember that success in your software engineering studies depends on consistent effort and a structured approach We encourage you to Read and understand the course materials provided by IGNOU Attend classes engage with your instructors and participate in group discussions Solve the questions on your own before reviewing the solutions in this book Create a study plan that allows you to cover all relevant topics Take practice tests under exam conditions to gauge your progress and identify areas that need improvement

IGNOU

Artificial Intelligence Previous 10 Years Solved Papers Manish Soni,2024-11-13 Welcome to the world of comprehensive learning and academic excellence with 10 Years Solved IGNOU Papers Artificial Intelligence As we stand at the forefront of a technological revolution the field of Artificial Intelligence AI has emerged as a driving force transforming the way we live work and perceive the world around us The Indira Gandhi National Open University IGNOU has been at the forefront of

providing quality education and this compilation of solved papers aims to facilitate your journey through the AI program Over the past decade AI has witnessed unprecedented growth becoming an integral part of various industries from healthcare to finance and from education to entertainment Keeping pace with this dynamic field requires a strong foundation and IGNOU s AI program is designed to provide just that This book featuring solved papers from the last 10 years serves as an invaluable resource for students offering a comprehensive overview of the examination patterns question types and the depth of knowledge required to excel in AI studies The selection of solved papers in this book is meticulous covering a wide range of topics such as machine learning natural language processing robotics and neural networks Each solution is presented in a clear and concise manner offering not only the correct answers but also detailed explanations to enhance your understanding of the underlying concepts We believe that learning from past examinations is a powerful tool for success and this book is crafted with the intention of providing you with the necessary insights to tackle future challenges in the AI domain As you embark on this academic journey it is essential to acknowledge the dedication and hard work put in by the faculty authors and experts in compiling this collection Their commitment to academic excellence is reflected in the quality of solutions provided ensuring that you receive the best possible guidance for your AI studies Approach each solved paper with curiosity and diligence treating it not only as a test of your current understanding but also as an opportunity for growth and improvement In conclusion 10 Years Solved IGNOU Papers Key Features Include Extensive Analysis of Solved Papers Each chapter focuses on a specific year s exam providing detailed solutions and explanations that clarify the rationale behind each answer helping you understand the intricacies of question framing and answer selection Theoretical Insights and Practical Examples To supplement the solved papers we provide theoretical insights and practical examples that explain complex AI concepts ensuring a well rounded understanding Mock Tests and Self Assessment To mimic examination conditions and test your readiness we include mock tests crafted from unsolved questions and typical exam questions accompanied by self assessment tools that help you track your progress and identify areas needing improvement Expert Tips and Examination Strategies Gain from insights provided by experts who have a profound understanding of the IGNOU exams These tips are designed to enhance your examination tactics and time management skills Artificial Intelligence is more than just a compilation of solved papers it is a companion on your academic journey providing guidance insights and a roadmap to success Embrace the challenges enjoy the process of learning and let this book be your trusted ally in mastering the exciting and evolving field of Artificial Intelligence

Family And Religious Studies A-Level (ZIMSEC) Past Exam Questions and Model Answers David Chitate, 2024-06-06 This book offers the ultimate collection of questions and model answers for ZIMSEC A Level exams Inside you ll find detailed syllabus review notes practice exercises and invaluable insights from examiners including tips and common mistakes to avoid With dedicated use of this resource success is assured making a Grade A highly attainable

IGNOU MCS 227 Cloud Computing and IoT Previous Years Solved Papers Manish

Soni,2024-11-13 In an era where technology is rapidly transforming every facet of our lives Cloud Computing and the Internet of Things IoT stand at the forefront of this digital revolution These technologies have not only reshaped the way we store manage and process data but have also paved the way for smart connected devices that are becoming increasingly integral to our everyday experiences As such mastering the concepts and applications of Cloud Computing and IoT is essential for students and professionals who aspire to thrive in the evolving tech landscape This book IGNOU Cloud Computing and IoT Previous Years Solved Papers is specifically designed to support students enrolled in Indira Gandhi National Open University IGNOU as they prepare for their examinations The book offers a comprehensive collection of solved questions from past exams providing students with detailed solutions and explanations that enhance their understanding of key concepts Key Features of This Book Thorough Solutions Each question is accompanied by a detailed solution explaining the step by step process to arrive at the correct answer This helps students not only to learn the correct answers but also to understand the underlying principles and logic Comprehensive Coverage The book covers a wide range of topics within Cloud Computing and IoT reflecting the breadth of the IGNOU curriculum This ensures that students are well prepared for any question they may encounter in their exams Enhanced Learning By working through these solved questions students can reinforce their learning and gain insights into how to approach similar questions in the future The explanations are designed to clarify complex concepts and provide practical examples where applicable Exam Oriented Preparation The questions are selected from previous years exams giving students a realistic idea of the types of questions that are likely to appear in their upcoming exams This targeted preparation helps students to focus their studies effectively Confidence Building Having access to solved questions boosts students confidence as they approach their exams knowing they have a reliable resource to help them review and solidify their knowledge This book is intended to be more than just a collection of answers it is a learning tool that guides students through the intricacies of Cloud Computing and IoT By engaging with the solved questions students will not only prepare for their exams but also develop a deeper understanding of how these technologies function and how they can be applied in real world scenarios We hope that this book will serve as a valuable companion for students as they navigate their studies and prepare to excel in their examinations It is our belief that the knowledge and skills gained from this book will empower students to succeed not only in their academic pursuits but also in their future careers in the ever expanding field of technology

IGNOU MCA MCS 214 Professional Skills and Ethics Previous Year Solved Papers Manish Soni,2024-11-13 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, 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. (Free Sample) [MH-SET Paper 1 Guide for Assistant Professor with Past Questions](#) Disha Experts, 2021-03-19 **IGNOU MCA**

Web Technologies Previous Years Unsolved Papers MCS 220 Manish Soni, 2024-11-13. The field of web technologies has grown exponentially, transforming how businesses and individuals interact with the digital world. As the internet continues to evolve, mastering web technologies has become a crucial skill for computer science professionals. This book, **IGNOU MCA Web Technologies Previous Years Unsolved Papers MCS 220**, is designed to assist students in their journey to becoming proficient in web development and technologies. By focusing on past unsolved question papers, the book serves as an essential resource for students enrolled in the MCS 220 course at Indira Gandhi National Open University (IGNOU). The MCS 220 course on Web Technologies is an integral part of the Master of Computer Applications (MCA) curriculum, aimed at providing students with the theoretical knowledge and practical skills needed to develop web applications and services. This course covers a wide array of topics, including HTML, CSS, JavaScript, web programming, client-server architecture, and database connectivity, among others. With web technologies at the forefront of modern computing, gaining mastery in these areas is vital for both academic success and professional growth. This book brings together a collection of unsolved question papers from previous years, offering students the opportunity to practice and apply their knowledge in a structured and focused manner. The aim of this book is to provide students with a hands-on approach to learning, allowing them to engage with real-world questions that have been part of the examination process. By working through these papers, students can better understand the exam pattern, improve their problem-solving skills, and boost their confidence in tackling complex questions. The significance of solving previous years' question papers cannot be overstated. Exams often tend to follow certain patterns, and practicing these papers allows students to get familiar with the types of questions they are likely to encounter in their actual exams. This book

serves as a critical tool for exam preparation by offering unsolved papers that encourage students to test their understanding and think critically about the subject matter. The practice of working through unsolved questions also helps students identify areas where they may need further study or clarification. In web technologies where both conceptual understanding and practical application are crucial, this kind of targeted practice is invaluable. By solving these papers, students not only reinforce their theoretical knowledge but also gain the practical skills necessary to excel in web development projects.

IGNOU MCA Professional Skills and Ethics Previous Year Unsolved Papers MCS 214 Manish Soni, 2024-11-13

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 MCS 214 Professional Skills and Ethics Previous Years Unsolved 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 endeavors in the professional world. **IGNOU MCA Software**

Engineering Previous Years Unsolved Papers MCS 213 Manish Soni, 2024-11-13 Software Engineering is one of the most critical and ever-evolving fields in the realm of technology today. As the backbone of software development, it plays a pivotal role in designing, developing, testing, and maintaining software systems that power everything from business applications to mobile devices. Understanding the significance of Software Engineering, the Indira Gandhi National Open University (IGNOU) has incorporated this subject into its curriculum, offering students a comprehensive understanding of both the theoretical frameworks and practical skills needed to excel in the industry. This book, *IGNOU MCA Software Engineering Previous Years Unsolved Papers MCS 213*, is a thoughtfully compiled collection of unsolved question papers from past years. It is designed to

serve as an indispensable resource for students preparing for their examinations in Software Engineering. The primary aim of this book is to provide students with an effective tool to self-assess their grasp of the subject, pinpoint areas that require further study, and enhance their problem-solving abilities. We firmly believe that one of the most effective ways to prepare for exams is by practicing with previous years' question papers. This approach not only helps students become familiar with the various types and formats of questions they may encounter but also deepens their understanding of the subject matter by encouraging the application of concepts to practical scenarios. By working through these unsolved papers, students can evaluate their readiness, refine their time management skills during exams, and gain confidence in handling complex and challenging questions. The choice to leave the papers unsolved is deliberate. Our intention is to encourage students to actively engage with the content, think critically, and explore different methods and approaches to solving the problems presented. This approach promotes independent learning and ensures that students are better equipped to handle a variety of question formats and difficulties during their actual exams. This book covers a broad spectrum of topics within Software Engineering, including software development life cycles, design methodologies, testing techniques, project management, and software maintenance. Each paper has been carefully chosen to ensure comprehensive coverage of the syllabus, providing students with a thorough understanding of the key concepts needed to succeed in their exams. We hope that this book will not only support students in their academic pursuits but also inspire them to explore deeper into the field of Software Engineering. As technology continues to advance, the knowledge and skills acquired in Software Engineering will undoubtedly be instrumental in shaping the future of software development and innovation. We would like to express our sincere appreciation to the faculty members and students of IGNOU who have contributed to the creation of this book. Your feedback and insights have been invaluable in ensuring that this book meets the needs of today's learners. We wish you the best of luck in your studies and future endeavours in the dynamic world of Software Engineering.

IGNOU BCA Introduction to Database Management Systems MCS 023 solved Manish Soni, 2024-11-13

It is with great pleasure and enthusiasm that we present to you the 10 Years Solved IGNOU Papers book. This collection has been meticulously curated to serve as an invaluable resource for students pursuing various programs offered by the Indira Gandhi National Open University (IGNOU). The journey of academic excellence is often marked by dedication, perseverance, and a thirst for knowledge. However, one of the most effective ways to embark on this path is by gaining insights from the experiences of those who have come before us. To this end, we have compiled a decade's worth of IGNOU examination papers, meticulously solved and presented in a comprehensive and user-friendly format. This book offers a gateway to understanding the examination patterns, question structures, and the level of rigor that IGNOU demands from its students. By providing detailed step-by-step solutions to these past papers, we aim to empower you with the knowledge and confidence necessary to excel in your IGNOU examinations. Key features of this book include:

A Decade of Solutions: We have included a wide range of questions from the past ten years, covering various courses

and subjects Detailed Explanations Each solved paper is accompanied by comprehensive explanations and solutions allowing you to grasp the underlying concepts and methodologies Topic wise Breakdown The content is organized by topic making it easy to locate and focus on specific subject areas that require attention Enhanced Learning By working through these solved papers you will not only gain an understanding of the question types but also develop problem solving skills and time management techniques Comprehensive Coverage This book encompasses a wide spectrum of disciplines enabling students from diverse programs to benefit from the wealth of knowledge it offers We understand the challenges and demands of IGNOU s rigorous academic programs and our goal is to support you in your quest for academic excellence We believe that with the right resources and determination every student can achieve their goals and create a brighter future We extend our best wishes to all the students embarking on this academic journey May your dedication and hard work yield the success you deserve Happy studying and best of luck for your IGNOU examinations

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Essential Study Skills Tom Burns,Sandra Sinfield,2003 The second edition of this bestselling book is publishing in April Essential Study Skills is designed to be the complete practical guide to academic success covering everything from what it means to be a university student to how to succeed in exams The effect on our students was like star dust Anne Schofield Ruskin College Oxford commenting on the authors teaching

The Open Court Paul Carus,1916 **Information knowledge and technology for Development in Africa** Dennis N. Ocholla,Neil D. Evans,Johannes Britz,2021 Information knowledge and technology occupy significant space in the information and knowledge society and ongoing debates on development such as sustainable development goals SDGs agenda 2030 and the fourth industrial revolution 4IR Disruptive technologies and cyber physical systems obscuring the lines between the physical digital and biological escalated by the COVID 19 pandemic present a new normal that profoundly affects the nature and magnitude of responses required to sustain and benefit from the new developments Africa known for its late adoption of new technologies and innovations is leapfrogging development stages in several enviable ways This book Information knowledge and technology for development in Africa written by eminent African

scholars comprises chapters that satisfactorily address information access artificial intelligence information ethics e learning library and information science education LISE in the 4IR data literacy and e scholarship and knowledge management which are increasingly essential for information access services and LISE in Africa We expect the book to support research teaching and learning in African higher education and worldwide for comparative scholarship *Scaling Mount UPSC* Sajjan Yadav,2025-01-29 This book is a collection of inspiring stories of young IAS officers who against all odds managed to crack the UPSC exam considered one of the toughest exams in the world The book also provides proven tricks hacks and strategies to approach the exam to enable readers to succeed

Immerse yourself in heartwarming tales of love and emotion with is touching creation, Experience Loveis Journey in **National Open University Past Question** . This emotionally charged ebook, available for download in a PDF format (*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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National Open University Past Question Introduction

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