12. (a) Explain the concept of JAVA Collection Framework with hierarchy. (13)

Or

(b) (i) Explain JAVA annotations with an example. (6)

(ii) Define wrapper classes. What is pre-main Method in JAVA? Explain with example. (7)

13. (a) Explain the basic components of JDBC. Explain in-detail the different drivers of JDBC. (13)

Or

(b) Explain the architecture of Remote Method Invocation (RMI) and its packages. (13)

14. (a) (i) What is a container? Explain its states and features. (6)

(ii) Explain the tiered architectures of Enterprise Applications in JAVA. (7)

Or

(b) What is use of JSP and Servlet? Briefly explain any two Web-Frameworks in JAVA. (13)

15. (a) Explain the concept of Garbage Collection in JAVA. How objects can be unreferenced? Explain with a suitable piece of code. (13)

Or

(b) (i) Give the different INet class methods used in JAVA with its description. (6)

(ii) Explain the basic URL Class Connection Methods with a sample program. (7)

PART C — (1 × 15 = 15 marks)

16. (a) (i) Explain the concept of Exception Handling with a suitable program. (5)

(ii) Design a basic calculator using Swing Fundamentals. (10)

Or

(b) (i) Explain the following with basic syntax: (5)

Meta Data

Stored Procedure

(ii) Write a simple Socket Program using JAVA to pass a message from client to server. (10)

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**DP Hallahan**

**Java Programming Question Paper Anna University:**

Computer Fundamentals Manish Soni,2024-11-13 In the vast landscape of modern technology understanding the fundamentals of computing is akin to possessing a master key that unlocks a world of possibilities This book dedicated to the exploration of computer fundamentals serves as your gateway to comprehending the intricacies of these ubiquitous machines Knowledge of computer fundamentals is not a mere luxury it is an indispensable tool in the arsenal of modern life Whether you re a seasoned professional seeking to deepen your understanding or a curious novice embarking on your first foray into the realm of computing this book is tailored to meet your needs As your companion in this voyage of discovery we offer not just knowledge but guidance Whether you seek to bolster your technical prowess embark on a career in technology or simply satiate your intellectual curiosity this book stands ready to accompany you every step of the way Computers have revolutionised the way we live work and communicate From smartphones and tablets to sophisticated data centres the impact of computing is felt in virtually every aspect of modern society A solid grasp of computer fundamentals not only empowers you to navigate this digital landscape with confidence but also opens doors to countless opportunities in various fields In this book we embark on a journey to explore the fundamental principles that underpin the world of computing Starting with a historical overview of the evolution of computers we delve into the essential components of computer hardware and software covering topics such as data representation operating systems networking logic gates and many more Now the question comes Who Should Read This Book The readership of a Computer Fundamental book extends beyond mere enthusiasts it caters to a diverse array of individuals whose pursuits intersect with the realms of technology and information Targeting a broad spectrum of learners this tome is indispensable for aspiring technocrats ambitious students enterprising professionals and curious minds alike Students traversing the hallowed halls of academia find solace in its pages as it encapsulates the requisite knowledge for mastering computer science fundamentals Armed with this arsenal of understanding they tackle assignments ace examinations and prepare themselves for the rigors of a burgeoning tech industry where innovation and adaptability reign supreme Seasoned professionals entrenched in the trenches of corporate warfare unearth in its depths a trove of wisdom to augment their skill set From IT consultants grappling with complex infrastructure dilemmas to cybersecurity experts fortifying digital fortresses against insidious threats this text serves as a beacon of enlightenment illuminating pathways to professional growth and excellence **Advanced Interdisciplinary Applications of Large Language Models and AI Agents** Biju, Soly Mathew,2025-10-10 The evolution of large language models LLMs and AI agents reveals a new era of interdisciplinary innovation where the boundaries between fields like healthcare law education and engineering are blurred These advanced AI systems are being integrated into complex workflows that require reasoning adaptability and collaboration across knowledge areas From assisting in medical diagnostics and legal research to enabling personalized learning and automating scientific research LLMs and AI agents transform how problems are

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Mastering Advanced Java Programming Question Bank Vol-1 Anshuman Mishra,2025-07-08 Java has long held its position as one of the most robust and versatile programming languages in the world With its WORA Write Once Run Anywhere philosophy strong community support extensive libraries and vast application from enterprise software to Android development Java remains a top choice for developers across domains As academia industry and government services increasingly demand Java proficiency there is an ever growing need for quality educational resources that combine theoretical understanding with practical insight This book Mastering Advanced Java Programming QUESTION BANK is designed to fulfill that demand It offers an exhaustive and carefully structured set of conceptual and practice based questions for undergraduate postgraduate and professional level learners The content is aligned with the curricula of BCA MCA B Tech and M Tech programs and caters equally to interview aspirants preparing for top software companies or competitive examinations Purpose of the Book The main goal of this book is to create a comprehensive question bank that supports deep conceptual clarity practical problem solving and real world application of advanced Java programming topics Rather than simply providing theoretical content this book focuses on Enabling mastery through questions Helping students and professionals prepare for technical interviews and campus placements Serving as a self assessment tool and a ready reference during academic exams Facilitating the transition from basic to advanced level Java programming through gradual topic progression The book covers all essential and advanced topics in Java ensuring a 360 degree approach to learning the language Who Should Use This Book This book is ideal for Undergraduate and Postgraduate Students of BCA MCA B Tech M Tech Computer Science IT Software Engineering AI Data Science etc Faculty Members and Trainers who want a ready resource for quizzes assignments and classroom problem solving sessions Software Professionals and Developers who want to brush up on their Java fundamentals and advanced knowledge Job Aspirants and Interview Candidates preparing for software interviews at top companies like TCS Infosys Wipro Cognizant Capgemini Google Amazon Microsoft etc Competitive

Exam Candidates preparing for UGC NET GATE NIELIT ISRO DRDO or PSU exams Structure of the Book Each chapter in this book is centered around a major concept or module of advanced Java The topics are logically sequenced to help learners move from foundational to complex topics efficiently Every chapter includes 50 Multiple Choice Questions MCQs To quickly test theoretical and applied understanding of key concepts 25 Short Answer Questions These are designed to reinforce definitions syntax differences and direct knowledge 15 Mid Length Answer Questions These offer detailed explanations programming scenarios and algorithmic logic 20 Programming Questions with Answers Focused on hands on coding problems real time logic implementation debugging exercises and project level code blocks This uniform structure ensures that learners not only grasp the concept but also gain confidence through layered practice      Life Henry R. Luce,1946

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database connectivity in Java using JDBC Covers SQL operations PreparedStatement ResultSet handling and connecting to popular RDBMS systems Chapter 8 Java 8 Features Lambda Streams Functional InterfacesTeaches modern Java programming using functional paradigms Topics like lambda expressions Stream API and built in functional interfaces are essential for cleaner faster and parallel programming Chapter 9 Java Annotations and Reflection APIExplains how Java annotations are used in frameworks and the power of runtime inspection using reflection Includes annotation creation meta annotations and class inspection techniques Chapter 10 Java Modules and Packages Java 9 A must know for modern Java developers Learn about modular development using JPMS managing dependencies and building scalable applications with encapsulated modules Chapter 11 Servlets and JSP in Java EEExplores the server side Java world Covers Servlet and JSP lifecycles session handling request dispatching and scriptlet handling Great for those aiming to build dynamic web applications Chapter 12 RESTful Web Services using JavaCovers the use of JAX RS for creating RESTful web services handling managing API requests and responses and implementing CRUD operations in enterprise APIs Pedagogy and Learning Support To ensure maximum understanding and retention each chapter includes Illustrative Examples Simple to advanced examples for every key concept Graphical Representations Flowcharts UML and diagrams wherever required Error Traps Common mistakes made by learners are highlighted Exam Tips Useful for quick revision before tests Interview Insights Common interview questions related to each topic Features That Make This Book Stand Out 1000 Practice Questions Covering all essential and advanced Java topics Clear and Concise Answers Well structured step by step solutions Code centric Learning Not just theory but hands on code practice Up to date with Modern Java Java 8 and Beyond Includes lambda streams modules and RESTful services Use Case Oriented Questions framed on real time applications and software architecture

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   - Chapter 3: Java Programming Question Paper Anna University in Everyday Life
   - Chapter 4: Java Programming Question Paper Anna University in Specific Contexts
   - Chapter 5: Conclusion

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