CSR402

Time: 2½ hrs.

Marks:75

Note:
1. All questions are compulsory with internal options.
2. Figures to the right indicate full marks.

Q. 1   Answer the following: (Attempt any four)   (20)
(a) Distinguish between C++ and Java.
(b) Explain JDK, JRE and JVM with a suitable diagram.
(c) Explain OOP concepts in detail.
(d) Write a short note on java data types.
(e) What are constants in java? Explain its types with suitable example.
(f) Write a short note on Type Casting in java.
(g) Write a program to implement the concept of shorthand operators in java.
(h) Write java code for the following output.
```
1
22
333
4444
55555
```

Q. 2   Answer the following: (Attempt any four)   (20)
(a) Explain the concept of two-dimensional arrays in java.
(b) Explain in detail the concept used to implement multiple-inheritance in java with a suitable example.
(c) What are java threads? Explain life cycle of a thread.
(d) Distinguish between errors and exceptions.
(e) What is the use of packages in java? Explain the process of creation of packages.
(f) Write a java program that illustrates the concept of implementing the runnable interface.
(g) Write short note on :
(i) Stopping and blocking a thread.   (ii) Thread priority
(h) Explain exceptions in java. Give types of exceptions along with their causes.

Q. 3   Answer the following: (Attempt any four)   (20)
(a) What are applets? Explain in detail applet life cycle.
(b) Explain the concept of window fundamentals in AWT.
(c) Write a java program to implement any five AWT controls.
(d) Distinguish between application program and applet program.
(e) Explain Graphics class. Give example implementing any 4 methods of Graphics class.
(f) Write applet code for the following:

(g) Explain paint() and repaint() methods of an applet.
(h) Write applet code to take input from the user to add 2 numbers and produce its result.

Q. 4   Answer the following: (Attempt any three)   (15)
(a) What are java tokens? Explain any four in detail.
(b) Explain decision making and looping.
(c) Explain the following string methods:
(i) toLowerCase() (ii) compareTo() (iii) concat() (iv) equalsIgnoreCase() (v) CharAt(n)
(d) What are wrapper classes in java? Explain the concept of autoboxing and unboxing in java.
(e) Distinguish between Swing and AWT.
(f) Explain the concept of line graphs and control loops in applets.

---X---

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working through these solved papers learners will gain the confidence and clarity needed to approach Java programming with competence and enthusiasm We extend our sincere thanks to the educators students and reviewers who contributed to the making of this book May it serve as a valuable guide for all those embarking on their journey through the world of object oriented technologies and Java programming   *View Larger A Textbook of Java Programming* Surbhi Kakar,2017-12-18 This book covers all the core java concepts of java programming language It also touches some of its advanced concepts It starts with talking about some of the basic concepts like data types control structures and classes It also discusses about exception handling multithreading and java libraries Further it explains how to interact with client side applications like applets and handling events The last section focuses on network communications through java The book is designed to give a fillip to the concepts of java programming Java programming has been variously conceptualized by experts across the world The subject forms the basis for software development Therefore understanding the nuances of the subject occupy significance for students of Information Technology Various books have approached the subject in their own ways This book proposes to be an integration of the theoretical aspects of java programming complemented with the implementation of the same in real world situations The book would be all encompassing covering the myriad aspects of the subject passing through the latest developments in the same covering the syllabus of institutions all over the country   *Core Java Interview Questions You'll Most Likely Be Asked* Vibrant Publishers,2021-09-10 Concept refresher for Java includes Java 8 and Java 9 Ideal prep guide for coding interviews technical and HR rounds Guidance for Resume building and Aptitude tests Includes Scenario based questions Developed and recommended by industry experts and placement experts Core Java Interview Questions You ll Most Likely Be Asked Second Edition is your perfect companion to stand above the rest in today s competitive job market With this guide you learn or refresh Core Java fundamentals and principles necessary for cracking the coding interview and acquaint yourself with real life interview questions and strategies to reach the solutions The Resume building tutorial and the Aptitude tests equip you to present yourself better even before the job interview This book is a complete course in itself to prepare for your dream Java job placement About the Series This book is part of the Job Interview Questions series that has more than 75 books dedicated to interview questions and answers for different technical subjects and HR round related topics This series of books is written by experienced placement experts and subject matter experts Unlike comprehensive textbook sized reference guides these books include only the required information for job search Hence these books are short concise and ready to use by students and professionals   **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

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