



SILVER OAK
UNIVERSITY
EDUCATION TO INNOVATION

Silver Oak College of Computer Application
Department of Computer Science
Bachelor Computer Science (CS/IT)
Subject Name: Java Programming
Subject Code: 3040243201
Semester: III

MID SEM EXAM
QUESTIONS BANK

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| Q.1. | Explain in detail the definitions and roles of JVM, JDK, Byte Code, and JRE in the context of Java programming. |
| Q.2. | What is Java? Why is it called a platform-independent language? |
| Q.3. | Define the Six Object-Oriented Programming (OOP) Concepts and explain each with examples. |
| Q.4. | Discuss the different data types available in Java and their uses. |
| Q.5. | Discuss some key features of Java that differentiate it from other programming languages. |
| Q.6. | Provide definitions for the terms identifier and literals in the context of Java programming. |
| Q.7. | What is meaning of Public Static Void Main. |
| Q.8. | Describe the concept of type conversion and casting in Java. Provide examples. |
| Q.9. | Describe the fundamental structure of a Java Program. |
| Q.10. | Illustrate various types of operators in Java with examples. |
| Q.11. | Highlight some key differences between Java and C++. |
| Q.12. | Discuss the importance of variables in Java and explain different types of variables. |
| Q.13. | What is Java? Why is it called a platform-independent language? |
| Q.14. | Explain the syntax for declaring a class in Java. What is the significance of access modifiers in class declaration? |
| Q.15. | How do you create a class and objects in Java? Provide an example. |
| Q.16. | What are identifiers in Java? Provide examples of valid and invalid identifiers. |
| Q.17. | Explain the syntax and usage of the IF, IF...Else and IF...Else..IF statements. in Java with an example. |
| Q.18. | How do you use nested IF statements in Java? Provide an example. |
| Q.19. | Describe the syntax and use of the Switch Case statement in Java. Provide an example. |
| Q.20. | Explain the syntax and usage of the While loop & Do While loop in Java with an example. |

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| Q.21. | Describe the syntax and usage of the For loop in Java with an example. |
| Q.22. | What is an array in Java? Provide an example of declaring and initializing a one-dimensional array& two-dimensional array in Java. |
| Q.23. | How do you pass arrays to methods in Java? Provide an example. |
| Q.24. | Describe the methods of the Arrays class in Java (fill(), sort(), equal(), binary search). Provide examples of each. |
| Q.25. | Explain the concept of class variables and class methods in Java. How are they different from instance variables and methods? |
| Q.26. | Classify the variables declared in a class (local variable, instance variable, class variable). Provide examples. |
| Q.27. | Describe the visibility modifiers for access control in Java (public, private, protected). How are they used? |
| Q.28. | What is the instance operator in Java? Provide an example of its usage. |
| Q.29. | Explain the role of the Garbage collector in Java. |
| Q.30. | What are static methods and static variables in Java? Provide examples. |
| Q.31. | What is Constructor? Explain different types of constructors with example. |
| Q.32. | What is inheritance in Java? How does it help in code reusability? |
| Q.33. | Explain the concept of Super class and Sub class in inheritance. |
| Q.34. | What is method overloading? Provide an example demonstrating method overloading in Java. |
| Q.35. | What is method overriding? How does it differ from method overloading? Provide an example |
| Q.36. | What is Inheritance? Explain types of inheritance with example. |
| Q.37. | What is the purpose of the Final keyword in Java? How is it used with variables, methods, and classes? |
| Q.38. | Discuss the purpose and usage of the this keyword in Java. Provide examples illustrating its use. |
| Q.39. | Explain the usage of the super keyword in Java. Provide examples demonstrating its use in constructors and method calls. |
| Q.40. | What is an interface in Java? How does it differ from a class? Provide an example of declaring and implementing an interface. |
| Q.41. | What is an abstract class in Java? How is it different from a regular class? Provide an example of an abstract class. |
| Q.42. | Give difference between Abstract class and Interface. |
| Q.43. | Explain String and String buffer class. |
| Q.44. | Define user-defined packages in detail. |
| Q.45. | Types of packages in Java with detail. |