



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Arrear Examination – November 2025

III Semester

Batch : 2022 Arrear
Major : Computer Science

Time: 3 Hours
Max. Marks: 100

21BCSC12 Programming in Java

Course Outcomes:

At the end of the course, students will:

CO1. Apply the salient features of Java programming.

CO2. Identify classes, objects, members of a class, and relationships among them to solve a specific problem.

CO3. Develop client-side programming using Applet and AWT

CO4. Implement packages to solve complex problems and apply exceptional handling mechanisms.

CO5. Recall the principles and practice of object-oriented concepts in the construction of robust, maintainable programs.

Part A

Choose the correct answer

10 X 1 = 10

- Which of the following options leads to the portability and security of Java? CO1K1
 - Bytecode is executed by JVM
 - The applet makes the Java code secure and portable
 - Use of exception handling
 - Dynamic binding between objects
- Which method cannot be overridden? CO1K2
 - Super
 - Static
 - Private
 - final
- Which method overloading implements the OOPS concept? CO2K1
 - Inheritance
 - Polymorphism
 - Encapsulation
 - Packages
- When is the object created with new keyword? CO2K2
 - Compile time
 - Run time
 - Depending on Code
 - Any time
- Which of the Java packages contains String Class? CO2K1
 - java.util
 - java.Lang
 - java.awt
 - java. Applet
- How many primitive data types are in Java ? CO2K2
 - 5
 - 6
 - 7
 - 8
- Which of this keyword must be used to inherit a class? CO3K1
 - Super
 - This
 - Extent
 - Extends
- Which of these can be used to fully abstract a class from its implementation? CO4K2
 - objects
 - packages
 - interfaces
 - none of the mentioned
- Which of the following keyword is not a part of exception handling? CO5K3
 - try
 - finally
 - thrown
 - catch
- Applet enters the running state when the system calls the _____ CO5K3
 - Init()
 - Start()
 - stop()
 - Paint()

Part B

Answer All Questions

5 x 6 = 30

Each answer should not exceed 400 words or two pages

- Describe the sections in Java Program Structure. CO1K1

(or)
- Explain break and Continue Statements in Java. CO1K2
- Write a Java Program to sort the elements in an one-dimensional array. CO2K3

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|---|-------|
| 13.a. Explain the Final keyword with an example. | CO3K2 |
| (or) | |
| 13.b. Explain Multilevel Inheritance in Java. | CO3K3 |
| 14.a. Explain the concept of Package Hierarchy in Java. | CO4K4 |
| (or) | |
| 14.b. Explain the User Defined Exception with an example. | CO4K4 |
| 15.a. Explain the concept of Applet Life cycle. | CO5K4 |
| (or) | |
| 15.b. Write an Applet program on moving a car using Java. | CO5K4 |

Part C
Answer All questions
Each answer should not exceed 800 words or four pages

5x12 = 60

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| 16.a. Brief on object-oriented programming concepts. | CO1K2 |
| (or) | |
| 16.b. Explain the various Control statements supported by Java. | CO1K4 |
| 17.a. Elucidate Class and Object concepts in Java with an illustration.. | CO2K2 |
| (or) | |
| 17.b. Discuss String Buffer Class methods in Java. | CO2K2 |
| 18.a. What are Constructors? Explain the different types of Constructors. | CO3K2 |
| (or) | |
| 18.b. What is Method Overriding in Java? Explain with an example. | CO3K2 |
| 19.a. Present the creation and importing of Packages in Java with an illustration. | CO4K2 |
| (or) | |
| 19.b. Explain how interfaces are extended and implemented in Java. | CO4K4 |
| 20.a. Analyse the methods used for Exception Handling in Java Applications. | CO5K5 |
| (or) | |
| 20.b. Discuss the Event handling and Graphic Programming in Java. | CO5K2 |
