



Jambath

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
Continuous Internal Assessment I –August 2025
III Semester

Class: II UG
Major: Computer Applications

Time: 2 Hours
Max Marks: 60

23BCAC06 Programming in Java

Course Outcomes:

- CO1: Understand the concept of OOP, java features, types, control structures and arrays.
CO2: Identify classes and objects, members of a class and relationship among them to solve a specific problem.
CO3: Learned the implementation of packages to solve the complex problems and applying exception handling mechanisms.
CO4: Learned the various methods in string and string buffer class
CO5: Knows how to develop the client side programming using Applet and AWT.

Part – A

6x 1=6

Choose the Correct Answer

1. What is the primary purpose of the Java Virtual Machine CO1K1
a. Compile java code to machine code b. execute java byte code
c. convert source code to byte code d. run java script code
2. Variables declared inside a class but outside any method are called CO1K2
a. Local variable b. Instance variable c. static variable d. temporary variable
3. Which of the following correctly declares a class in java CO2K2
a. class = Car{ } b. class Car { } c. Car class { } d. def class Car { }
4. Which statement is true about constructors CO2K2
a. They can have a return type b. They cannot be overloaded
c. They must have the same name as the class d. They must be private
5. Which keyword is used for inheritance in java CO3K2
a. inherits b. super c. extends d. implements
6. What is required for method overriding CO3K2
a. Method name must differ b. Method must be private
c. Same method name and signature in both classes d. Method must be static

Part- B

3x6=18

Answer ALL Questions

Each answer should not exceed 400 words or two pages

- 7.a. What are constants and variables in java? Give example CO1K1
(or)
- 7.b. Explain what operators are in java with a simple example CO1K2
- 8.a. How to create an Array in java? Explain its types with example? CO2K2
(or)
- 8.b. Explain the string and string buffer classes in java with simple examples? CO2K2
- 9.a. Explain the concept of Wrapper classes in java and analyse their usage with examples. CO2K3
(or)
- 9.b. Explain the concept of a final class in java and analyze its use with an example. CO3K3

Part-C

3x12=36

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 10.a. Explain decision making and branching in java with examples. CO1K2
(or)
- 10.b. Describe decision making and looping in java with example. CO1K2

- 11.a. What is a class? How are objects created in java? (6)
Write a java program using a class and objects. (6) CO2K3
(or)
- 11.b. Explain constructor in java and analyse the concept of constructor overloading
with suitable example. CO2K3
- 12.a. Explain how inheritance works in java and analyze its different types with example CO3K3
(or)
- 12.b. What is method overriding in java? Explain with an example. CO3K2

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Staff-In-Charge: Dr.D.Ambika