

B.C.A Semester - 4 (CBCS) Examination
March/April-2025 [NEW COURSE]
Programming with JAVA(Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Attempt the following: (03)
- 1) Give full form : JRE.
 - 2) _____ is an exit controlled loop.
 - 3) What is jagged array?
- Que.1(B) Answer the following (any two): (06)
- 1) List various decision structures. Explain any one with example.
 - 2) List and explain various datatypes available in java.
 - 3) List various jumping statements. Explain any one with example.
 - 4) List various logical operators. Explain with the help of an example.
- Que.1(C) Answer the following (any one): (05)
- 1) What is a command line argument array? Explain by giving example.
 - 2) Write a java code which shows the use of finalize() method.
- Que.2(A) Attempt the following: (03)
- 1) Protected data members are visible outside the class : True/False.
 - 2) Give full form : API.
 - 3) What is Universal class?
- Que.2(B) Answer the following (any two): (06)
- 1) Differentiate between Normal Import and Static Import.
 - 2) Explain the concept of Method Overriding by giving example.
 - 3) Write a java scriplet to show the implementation of Hybrid Inheritance using interface.
 - 4) Explain the concept of Nested Class giving example.
- Que.2(C) Answer the following (any one): (05)
- 1) What is user defined package? Explain by giving example.
 - 2) Explain by giving example, the purpose and utility of Random class.
- Que.3(A) Attempt the following: (03)
- 1) What is Demon Thread?
 - 2) What is piped stream?
 - 3) A java program immediately ends after it encounters "throw" : True/False.
- Que.3(B) Answer the following (any two): (06)
- 1) What is multithreading? Explain by giving example.
 - 2) Explain the concept of Character Stream.
 - 3) Write short note on : InputSteamerReader.
 - 4) Demonstrate how to use StreamTokenizer class in java program?
- Que.3(C) Answer the following (any one): (05)
- 1) Explain in detail the concept and lifecycle of threads.
 - 2) Explain the concept of exception handling by giving example.

- Que.4(A) Attempt the following: (03)
- 1) What is Flow Layout?
 - 2) An applet runs either in a web browser or in an applet viewer : True/False.
 - 3) In a _____ layout manager, components are arranged in a form of rows and columns, and each component is the same size."
- Que.4(B) Answer the following (any two): (06)
- 1) Explain how to disable the layout manager and organise the contents.
 - 2) Explain the purpose and utility of using Graphics class in java programming.
 - 3) What is SpringLayout? Explain how its useful.
 - 4) Differentiate between application and applet.
- Que.4(C) Answer the following (any one): (05)
- 1) List various Layout Managers. Explain any one layout of your choice by giving example.
 - 2) Explain the concept and life cycle of applet.
- Que.5(A) Attempt the following: (03)
- 1) Give full form : AWT.
 - 2) The _____ interface is used to receive action events, like button click.
 - 3) FocusEvent is an Adapter class : True/False.
- Que.5(B) Answer the following (any two): (06)
- 1) Differentiate between awt and swing.
 - 2) Explain the purpose and utilities of using KeyAdapter class in java programming.
 - 3) List various String Components. Write a java code that shows the use of any two of them.
 - 4) Write a short note on : JMenuBar.
- Que.5(C) Answer the following (any one): (05)
- 1) List various Listener interfaces. Explain any one by giving example.
 - 2) Explain in detail : Event Delegation Model.
