[Max. marks: 70]

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B.C.A. S.Y (**Sem – IV**)

Examination November - 2023 Java Programming Language

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Student	t's Signature	•

[Time: Three hours]

Instructions

(1) All questions are compulsory.

(2) Figures to the right indicate full marks.

Q.1 Answer in short. (Any 5)

11

- 1. What is JVM?
- 2. What is right shift with zero fill? Give example.
- **3.** Give use of this keyword.
- 4. Give difference between checked and unchecked exception
- 5. Explain garbage collection.
- 6. List methods of Graphics class.

Q.2 Answer the following. (Any 2)

14

- 1. Explain features of Java.
- 2. Explain Java program structure.
- 3. Explain static keyword.

Q.3 Answer the following. (Any 2)

14

- 1. Explain runtime polymorphism using interface.
- **2.** Give difference between String and StringBuffer. Explain any 4 methods of String class.
- **3.** Explain try, catch and finally keywords.

Q.4 Answer the following. (Any 2)

14

- 1. What is thread? Explain thread lifecycle.
- 2. What is a package? Explain package creation and import in detail with example.
- **3.** What is <applet>? How can we pass parameters to an applet? Give example.

Q.5 Do as directed. (Any 3)

18

- **1.** What is method overriding? Differentiate overloading and overriding giving an example.
- **2.** Explain bitwise operators.
- 3. What is singly linked list? Write a program to create and display a Singly Linked List.
- **4.** Write a program to accept a number from the command line and raise a user defined exception if it is negative number.