

Roll No.

97692

**BCA 6th Semester (Re-Appeal)
Examination – December, 2022**

**OBJECT TECHNOLOGIES AND PROGRAMMING USING
JAVA**

Paper : BCA-307

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) What is Encapsulation ?
- (b) What is Inheritance ?
- (c) What is JVM ?
- (d) What is Final Keyword ?
- (e) What is Abstract Class ?

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- (f) What is CLASSPATH?
- (g) What is stream class?
- (h) What is modifiers?

UNIT - I

2. What is object oriented programming? How is it differ from the procedure oriented programming? Also discuss various applications of OOPS.

- 3. (a) Describe Class, Object and Abstraction as applied in OOP with example.
- (b) Discuss Evolution of OO Methodology.

UNIT - II

4. (a) What are constructor? How are these useful and used? Explain with example.

- (b) Explain:
 - (i) Method Overriding
 - (ii) Polymorphism

5. (a) Explain various operators available in Java.

- (b) Explain:
 - (i) Garbage Collection
 - (ii) The Finalize Method

UNIT - III

6. What is Exception? List some of the most common type of exception that might occur in Java. Explain how to deal with exception?

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7. (a) What do you mean by Package? How to access the content of package?

(b) What is Interface? How to Implement Interface? Explain.

UNIT - IV

8. What is multithreading? Explain life cycle of a thread with java code example. Also explain inter-thread communication.

9. (a) How does String class differ from the String Buffer class? Explain with example.

(b) What is stream? How is the concept of stream used in JAVA?

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