

Roll No. ....

97692

**BCA 6th Semester (Re-Appear)  
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 ?

- (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 ?

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 ?

