

Roll No.

97692

**BCA 6th Semester
Examination – November , 2018**

**OBJECT TECHNOLOGIES & 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 : There shall be 9 questions. Question No. 1 will be **compulsory** and in addition to the compulsory question, students have to attempt **four** more questions selecting **one** question from each unit. All questions carry equal marks.

1. (a) What is Primitive data ?
- (b) What is Finalize method ?
- (c) What is Final keyword ?
- (d) What is Finally keyword ?
- (e) What is Transient modifier ?
- (f) What is Volatile modifier ?
- (g) What is Thread priority ?
- (h) What is Extends keyword ?

2 × 8 = 16

UNIT – I

2. Explain the following with example : 4 + 5 + 7
- (a) Paradigms of Programming Language
 - (b) Evolution of OO methodology
 - (c) Benefits of OOPs
3. Explain the following with example : 6 + 5 + 5
- (a) Abstraction and Encapsulation
 - (b) Method overriding and Polymorphism
 - (c) Class and Objects

UNIT – II

4. (a) Why JAVA language is secure on Internet ? What are features of JAVA ? Explain each with suitable example. 12
- (b) What are different ways of declaration of array ? Explain with example. 4
5. How to use multiple inheritance in java ? What are types of inheritance ? Explain each with example. 16

UNIT – III

6. (a) How package is important in JAVA ? What are types of Package ? Explain with example. 11
- (b) How try catch work in Java ? Explain with example. 5
7. (a) What is Interface ? How to implement Interface in different way in Java ? Explain. 12

- (b) What is abstract class ? How implement in Java ? Explain. 4

UNIT – IV

8. How to use Multithreading ? How to create a thread by extending a Thread class ? Illustrate life cycle of thread through suitable program in Java. 16
9. Explain the following : 4 × 4 = 16
- (a) String Buffer
 - (b) String operations
 - (c) Reading and Writing files
 - (d) Inter Thread Communication