

Roll No.....

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1918

BCA/M-17
PROGRAMMING IN CORE JAVA
Paper: BCA-366

Time: Three Hours

Maximum Marks: 80

Note: Attempt five questions including No. 1 which is compulsory. All questions carry equal marks.

Compulsory Question

1. (i) What is Bytecode? Explain.
 - (ii) Explain difference between JVM & JRE.
 - (iii) Explain, how object is created?
 - (iv) Explain, how to add classes from a package into your program?
 - (v) Explain the difference between checked and unchecked exception.
 - (vi) Explain various argument passing mechanism.
 - (vii) Explain the difference between throw and throws.
 - (viii) What is super keyword in Java?

Unit-I

2. What the basic principles are of object oriented programming? Explain.
3. Explain various primitive data types in Java. Also explain how to do input and output operation in Java.

Unit-II

4. Explain, how to use arrays in Java. Also explain polymorphism in Java?
5. What is a class and object? Explain with example. Also explain static members with example.

Unit-III

6. Explain the concept of inheritance in Java. Also explain various types of inheritance with example.
7. Explain the concept of package and interface. Differentiate between package and interface with example.

Unit-IV

8. Explain the concept of Exception handling in Java in detail. Also explain the difference between user defined and in-built exception.
9. Design a Graphical user interface (GUI) in Java.