Roll No. ....

6th Sem / Branch : Comp, IT
Sub. : Programming in Java

Time : 3Hrs.   M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (10x1=10)

Q.1 JDK stands for
a) Java Development Kit
b) Just Development Kit
c) Just Displacement Kit
d) Java Displacement Kit

Q.2 Who invented Java
a) Denis Ritchie   b) James Gosling
c) Charles Babage   d) Ken Thompson

Q.3 JVM stands for
a) Java Virtual Machine
b) Just Visual Machine
c) Java Virtual Means
d) None of the above

Q.4 Java has _____no. of access specifiers.
a) One   b) Two
c) Three   d) Four

Q.5 Reusability of code occurs in
a) Data hiding   b) Inheritance

c) Instruction sheet   d) None of the above

Q.6 A class in Java is like a _____.
a) Prototype   b) Blue Print
c) Instruction sheet   d) All of the above

Q.7 Java is a _____ programming language
a) Functional   b) Object-Oriented
c) Theoretical   d) All of the above

Q.8 Which of the following keyword is used to declare an array of object in Java
a) New   b) Create
c) Allocate   d) Delete

Q.9 When is the memory allocated for an object
a) At declaration of object
b) At compile time
c) When object constructor is called
d) None

Q.10 Which of the following is Modulus operator
a) ^   b) %
c) #   d) !

SECTION-B

Note: Objective type questions. All questions are compulsory.   (10x1=10)

Q.11 Define JVM.
Q.12 What is meant by byte code.
Q.13 Define Type Casting.
Q.14 Write syntax for while loop.

Q.15 Define ternary operator.

Q.16 Types of polymorphism.

Q.17 Define object.

Q.18 Write two ways of creating thread in Java.

Q.19 Define exception.

Q.20 Define applets.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions.   (12x5=60)

Q.21 Difference between Java and C++.

Q.22 Define Data type. What are various data types used in Java.

Q.23 What is class is Java? Explain with suitable example.

Q.24 What are access specifiers? How many types are there in Java.

Q.25 Explain the types of Inheritance.

Q.26 Difference between interfaces and class.

Q.27 Write a program in Java to find a factorial of a number using recursion.

Q.28 Define thread? Explain its life cycle.

Q.29 Discuss the methods defined in input stream and output stream classes.

Q.30 Write short notes on :-
   a) The throw class   b) Finally class

Q.31 Discuss the use of garbage collection?

Q.32 What is the purpose of finalizer.

Q.33 Discuss the various types of operators in Java.

Q.34 Difference between while loop and do-while loop.

Q.35 Define Applet? Discuss its life cycle.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions.   (2x10=20)

Q.36 What are various features of Java. Explain.

Q.37 Explain various control statements of Java with examples.

Q.38 Explain in details:
   a) Types of exceptions
   b) Give five differences between applet and applications.