END SEMESTER/RETEST Examination 2020
CO-502
Java Programming
Total Mark: 70

Total Time: (3) hours

PART- A
(Time:1 hr: Mark:25)
(All the questions of part A are compulsory)
Mark shown against the questions.

Q1. Fill in the blanks   1x5=5

   a) Integer is a _____ class Data Type
   b) In Java, Arrays are implemented as _____
   c) _____ is achieved by combining methods and attributes into a class
   d) _____ is the return type of constructors
   e) _____ is the implementation of Multiple Inheritance in Java

Q2) Write down whether the followings are true/false   1x5=5

   a) Java is a platform independent programming language
   b) Compilation is one of the OOPS features
   c) 'private' is an invalid identifier with 'main' method
   d) Java does not support Pointers
   e) Method overriding is a combination of inheritance and polymorphism

Q3) Choose the correct option   1x5=5

  I.   Method overloading is determined at

    a) Compile time
    b) Run time
    c) Coding time
    d) Execution time

  II.   Garbage Collection means

    a) Detection and marking of unused objects
    b) Way to destroy unused objects
    c) Removing Virus
    d) None of them

  III.   What is the extension of java source code file
    a) .class
    b) .exe
    c) .java
    d) None of the above

IV. Which component of java environment is used to compile, debug and execute a java program

    a) JDK

    b) JRE

    c) JVM

    d) Net Beans

v. Full Form of AWT is

    a) Application window Toolkit

    b) Applet Windowing Toolkit

    c) Abstract Windowing Toolkit

    d) None of the above

Q4 Answer the following in one word/sentence   1x10=10

    a) What does an access modifier specify in java?

    b) What is an abstract class?

    c) Name the java package that contains classes and interfaces for network programming?

    d) What is multi threaded programming?

    e) What do you mean by Exception

    f) What is the full form of JDBC?

    g) What is the advantage of using static member in a class?

    h) Why is the main function declared as public?

    i) Name a class used for File handling in Java?

    j) Which java package contains the built-in classes required for JDBC based Programming?

PART – B
(Time:2 hrs, Mark:45)

(This part consists of 8 questions each of which carries 9 mark equally. Out of 8 answering any five is compulsory).

Q1) Answer the followings   4.5x2=9

    a) Explain the features of OOPS

    b) Distinguish between structured oriented and object oriented approach in programming

Q2) Answer the followings   4.5x2=9

a) Write a java program to realize the concept of Multilevel Inheritance

2

b) Write a java program to add any two integers implementing the concept of abstract class

Q3) What is a Package in java? Write down the steps to create a package with an example
1+8=9

Q4) what is a thread? Draw the life-cycle of a thread. Differentiate between a single and a multithreaded Program in java.
1+3+5=9

Q5) Explain GUI programming concept in java. Write a java program to display login form (using JFrame as Top Level container)
9

Q6) Write a java program to display data from a mysql table using JDBC Technology
9

Q7) Write simple client and server program to transfer message between them in java
9

Q8) **Write short Notes(any three)**
3x3=9

   a) Java Distributions
   b) Run Time Polymorphism
   c) File Handling in Java
   d) Exception Handling in Java

****

3