PROGRAMMING IN JAVA | BSIT – C402

Time: **1:15 Hour**   Max. Marks: **30**

Note: All questions are compulsory.

Q.1- Answer the following questions.   **(1 x 6 = 6 Marks)**
   <u>Multiple Choice Questions</u>
   a) Size of a float is ………. (CO-1, BL-1)
      a. 2 byte   b. 4 byte
      c. 8 byte   d. None of these

   b) Which of these are selection statements in Java? (CO-1, BL-1)
      a. break   b. if()
      c. continue   d. for()
   c) What is the extensions of java code files? (CO-1, BL-1)
      a. .class   b. .java
      c. .txt   d. None of these

State True/ False
   d) String is immutable in JAVA. (CO-2, BL-3)
   e) Garbage Collection is manual process. (CO-1, BL-1)
   f) Java is platform independent language but JVM is platform dependent.
      (CO-1, BL-4)

Q.2-Attempt any two of the following (up to 70 words)   (2 x 3 = 6 Marks)
   a) Write any five features of Java with example. (CO-1, BL-2)
   b) Design a program in Java to check whether a number is prime or not.
      (CO-2, BL-6)
   c) Explain OOPs.Write short note on – Encapsulation, Abstraction,
      Polymorphism, Inheritance. (CO-1, BL-2)

Q.3-Attempt any one of the following   **(1 x 6 = 6 Marks)**
   a) Differentiate between JVM, JRE, JDK. (CO-1, BL-4)
                              OR
   b) What is Exception Handling. Write a program to implement try,
      catch and finally. (CO-2, BL-6)

Q.4- Attempt any one of the following.   (1 x 6 = 6 Marks)
   a) Distinguish between abstract class and interface with the help of suitable examples. (CO- 2, BL-4)

<div align="center">OR</div>

   b) State what is Multithreading. Explain life cycle of a thread with a proper diagram. (CO- 2, BL-2)

Q.5- Attempt any one of the following.   (1 x 6 = 6 Marks)
   a) Differentiate between String and StringBuffer. Write a program in Java to check whether a string is palindrome or not (CO- 2, BL-6)

<div align="center">OR</div>

   b) Why is multiple inheritance not supported in Java. Write a program in java to implement multiple inheritance using interface. (CO- 2, BL-6)

. now does
(CO-1, BL-5