B. Sc. IT (Semester – 5th)
PROGRAMMING IN JAVA
Subject Code: BITE1-521
Paper ID: [130425]

Time: 03 Hours   **Maximum Marks: 60**
Instruction for candidates:
1.   Section A is compulsory. It consists of 10 parts of two marks each.
2.   Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3.   Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A   **(2 marks each)**
Q1.   Attempt the following:
   a. Define Java Virtual Machine
   b. Define interface.
   c. What are Applets?
   d. Differentiate between String and String Buffer class
   e. What is the utility of break statement?
   f. How multiple inheritances can be implemented in java?
   g. What is Action Listener?
   h. What is method overriding? Give an example.
   i. Differentiate between method overloading and overriding
   j. Write note on AWT.
Section – B   **(5 marks each)**
Q2.   With a program illustrates user defined exception handling.
Q3.   How to handle multiple catch blocks for a nested try block? Explain with an example.
Q4.   Discuss various AWT containers with examples.
Q5.   Explain about the adapter class with an example.
Q6.   What is a constructor? What is its requirement in programming? Explain with program

Section – C   **(10 marks each)**
Q7.   What are wrapper classes? Discuss the various constructors of these classes. Why are wrapper classes required?
Q8.   What is File input Stream and File Output Stream, Explain in brief. Write a java program to copy the contents of one text file to another
Q9.   How an Applet is created? Describe the Applet Life Cycle. What are the requirements for creating an Applet?