R17

Code No:843AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, March/April - 2022
JAVA PROGRAMMING

Time: 3 Hours   **Max.Marks:75**

Answer any five questions
All questions carry equal marks
- - -

1.a)   Discuss the factors for the success of Java programming language.
 b)   Define object. Compare it with class.   [8+7]

2.a)   Demonstrate method overriding concept.
 b)   Write a program to count the frequency of a character in a given string.   [7+8]

3.a)   Illustrate different forms of inheritance.
 b)   Differentiate between abstract class and interface.   [7+8]

4.a)   Write a program to implement multilevel inheritance using interfaces.
 b)   Describe different methods of writing a file. Write a simple program to write your details
      into a file named Bio.doc.   [7+8]

5.a)   What is an exception? Discuss unchecked exceptions and exception hierarchy in Java.
 b)   Write a program to handle divide by zero exception.   [8+7]

6.a)   How to create threads in Java? Explain with illustrations.
 b)   Discuss the Java support for inter thread communication.   [7+8]

7.a)   What is the significance of adapter classes in event handling?
 b)   Write code to create a user interface for student registration for a technical event at your
      college using AWT components.   [7+8]

8.a)   Describe applet life cycle and compare it with application program.
 b)   Explain the importance of Model-View-Controller architecture. [8+7]

---ooOoo---