

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]

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