

R17**Code No: 843AE****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, April/May - 2019****JAVA PROGRAMMING****Time: 3hrs****Max.Marks:75****Note:** This question contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**5 × 5 Marks = 25**

- 1.a) What is the significance of Java virtual machine? [5]
- b) What are the uses of “final” keyword? [5]
- c) What are the methods that support interthread communication? [5]
- d) Explain Adjustment Event class. [5]
- e) What is the difference between an applet and an application. [5]

PART - B**5 × 10 Marks =50**

2. List out various bitwise operators. Explain them with suitable examples. [10]
- OR**
- 3.a) Distinguish between data abstraction and data encapsulation.
- b) Explain about the type conversion with an example. [5+5]
- 4.a) What is a package? How will you define a package and import it.
- b) What are the benefits of Inheritance? [5+5]
- OR**
5. How does Java support multiple Inheritances? Explain with an example. [10]
6. What are thread priorities? Explain with suitable examples. [10]
- OR**
7. Explain is Alive() and join() methods of thread class with suitable example. [10]
8. Distinguish between Text Field and Text Area classes. List and explain various methods of those classes. [10]
- OR**
9. Write about layout managers. [10]
10. Write an applet which will scroll “Java programming” from right to left across the applet’s window. [10]
- OR**
11. Explain J Check Box and J Radio Button classes. [10]