

Code No: 823AD

R15**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA III Semester Examinations, January - 2018****JAVA PROGRAMMING****Time: 3hrs****Max.Marks:75****Note:** This question paper 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) Write a short note on Polymorphism with an example. [5]
- b) Explain about packages. [5]
- c) Write a short on TreeMap. [5]
- d) Explain about unchecked exception. [5]
- e) Explain the concept of applets. [5]

PART - B**5 × 10 Marks = 50**

2. Explain about various parameter passing techniques with a sample program. [10]

OR

3. Explain different types of constructors in Java. Give suitable examples. [10]

4. Explain about the following:

- a) Inheritance
- b) Member access rules. [5+5]

OR

5. Explain the usage of following concepts with a sample programs

- a) Abstract class
- b) final keyword. [5+5]

6. Explain the following Legacy collection classes

- a) Stack
- b) Vector. [5+5]

OR

7. Discuss in detail the following

- a) StringTokenizer
- b) Scanner. [5+5]

8. Explain about the usage of try, catch and finally. [10]

OR

9. Explain thread life cycle. [10]

10. Discuss about Flow Layout and Border Layout. [10]

OR

11. Write a Java program to demonstrate the key handling events. [10]