



Code No: 823AD

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]

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