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Code No: 843AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, March/April - 2023 JAVA PROGRAMMING

Time: 3 Hours

1.a)

b)

c)

d)

e)

Note: i) Question paper consists of Part A, Part B.

Discuss about various data types in Java.

Describe exception hierarchy.

Explain about CheckboxGroup.

Discuss about the swing buttons.

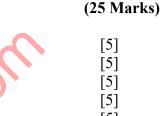
Explain about using final with inheritance.

- ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
- iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

PART – B

Illustrate various control statements in JAVA. 2.a) Explain about overloading methods and constructors with examples. **b**) [5+5] ŌR Write a Java program generate Fibonacci series using recursion concept. 3.a) Explain about string classes with examples. b) [5+5] Distinguish between specialization and specification. 4.a) Describe the differences between classes and interfaces with examples. **b**) [5+5] OR What is an interface? Explain about implementing interfaces in detail. 5.a) Discuss about method overriding and abstract classes. **b**) [5+5] 6.a) What are built-in exceptions? Explain. Explain about interthread communication in detail. b) [5+5] OR 7.a) Discuss about thread life cycle and creating threads. What is the use of try, catch, throw, throws and finally statements in JAVA? b) [5+5]



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[5]

[5]

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(50 Marks)

Max.Marks:75

R17

[5+5]
[5+5]
[5+5]
[5+5]