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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA II Semester Examinations, March/April - 2023
JAVA PROGRAMMING

Time: 3 Hours   **Max.Marks:75**

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

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

(25 Marks)

1.a)	Discuss about various data types in Java.	[5]
b)	Explain about using final with inheritance.	[5]
c)	Describe exception hierarchy.	[5]
d)	Explain about CheckboxGroup.	[5]
e)	Discuss about the swing buttons.	[5]

PART – B

(50 Marks)

2.a)	Illustrate various control statements in JAVA.	
b)	Explain about overloading methods and constructors with examples.	[5+5]

OR

3.a)	Write a Java program to generate Fibonacci series using recursion concept.	
b)	Explain about string classes with examples.	[5+5]

4.a)	Distinguish between specialization and specification.	
b)	Describe the differences between classes and interfaces with examples.	[5+5]

OR

5.a)	What is an interface? Explain about implementing interfaces in detail.	
b)	Discuss about method overriding and abstract classes.	[5+5]

6.a)	What are built-in exceptions? Explain.	
b)	Explain about interthread communication in detail.	[5+5]

OR

7.a)	Discuss about thread life cycle and creating threads.	
b)	What is the use of try, catch, throw, throws and finally statements in JAVA?	[5+5]

8.a) Explain about GridBagLayout class.
  b) Discuss about handling mouse and keyboard events. [5+5]

OR

9.a) What are constructors of TextField? Explain.
  b) Explain about the AWT class hierarchy in detail. [5+5]

10. Explain the following:
    a) Components and containers
    b) Limitations of AWT. [5+5]

OR

11. Explain the following:
    a) Creating applets
    b) Trees and JTable. [5+5]

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