Code No: 872AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA II Semester Examinations, March - 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)	Illustrate type conversion and type casting in Java.	[5]
b)	Differentiate between interface and abstract class.	[5]
c)	What are the benefits of exception handling?	[5]
d)	Discuss the limitations of abstract window toolkit.	[5]
e)	How to perform thread synchronization?	[5]

PART – B
(50 Marks)

2.	Explain the need of object oriented programming paradigm and its concepts.	[10]

OR

3.a)	Demonstrate the use of 'final' keyword.	
b)	With an example, explain the concept of inner classes.	[5+5]

4.	Define polymorphism and discuss dynamic method dispatch.	[10]

OR

5.a)	Describe member access rules for packages.	
b)	Write a program to implement hierarchical inheritance.	[5+5]

6.	How to define an interface? Illustrate partial and total implementation of interfaces.	[10]

OR

7.a)	Differentiate between throw and throws usage.	
b)	Write a program to demonstrate nested by statements.	[5+5]

8.	With the help of a program explain delegation event model of Java.	[10]

OR

9.a)	Create a login form using labels, text boxes and buttons.	
b)	Describe Model-view-controller architecture.	[5+5]

10.	Discuss the advantages of applets over application program and life cycle of an applet.	[10]

OR

11.a)	How to create multiple threads?	
b)	Explain the purpose of wait() and notify() methods.	[5+5]

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