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**R15** 

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, June/July - 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

	IAKI - A					
	$5 \times 5$	Marks = 25				
1.a)	Define autoboxing and unboxing.	[5]				
b)	Define the syntax for creation of inner class.	[5]				
c)	Differentiate treemap and hashmap.	[5]				
d)	Define daemon threads.	[5]				
e)	Define the syntax for checkbox with example.	[5]				
	PART - B					
	$5 \times 10 \text{ N}$					
2.	Explain about the following					
	a) abstraction b) encapsulation c) dynamic binding d) inheritance <b>OR</b>	[10]				
3.a)						
b)	Explain about copy constructor.	[5+5]				
4.a)	What is a nested class? Differentiate between static nested classes and non-static nested classes.					
b)	How to define a package? How to access, import a package? Explain with	examples. [5+5]				
	OR					
5.a)	Discuss various forms of inheritance.					
b)	Give an example for function overloading and explain.	[5+5]				
6.a)	Illustrate with an example the usage of TreeSet and TreeMap classes.					
b)	Differentiate vector and arraylist with examples.	[5+5]				
	OR					
7.	Explain collection frame work with examples.	[10]				



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8.a)	What is meant b	y user-defined	exceptions?	Demonstrate w	ith example

b) Explain the procedures to create a new thread.

[5+5]

OR

- 9.a) What is an exception? What are the benefits of exception handling?
- b) Explain with suitable example java programs the following:i) Rethrowing an exception. ii) Method Specifying exceptions. [5+5]
- 10.a) Explain delegation event model.

b) Write a JAVA program for handling key events.

[5+5]

OR

11. Write a JAVA program that works as simple calculator. Use a grid layout to arrange buttons for digits and for the +, -,\*, % operations. Add a text field to display the result.

[10]

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