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Code No: 823AD

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 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 $5 \times 5 \text{ Marks} = 25$			
1 \			
1.a)	What are the primary motivational factors for Java development?	[5]	
b)	Differentiate between class, interface, abstract class.	[5]	
c)	Compare HashSet and HashMap collection classes.	[5]	
d)	What are the benefits of exception handling?	[5]	
e)	What are the various sub classes of JToggleButton?	[5]	
PART - B			
	5 × 10 Mark	s = 50	
2.a)	Demonstrate the usage of 'this' keyword.		
b)	How does Java support abstraction? Give suitable code. OR	[5+5]	
2 0)			
3.a)	Can an object be passed as a parameter to a function? Justify your answer.		
b)	What is the main purpose of unboxing?	[10]	
c)	Is garbage collection is automatic in Java?	[10]	
4			
4.a)	Differentiate between method overloading and method overriding.	F.C	
b)	How to prevent inheritance of a class?	[5+5]	
OR			
5.a)	What is a nested class? Is it different from inner class?		
b)	Explain access modifiers applicable to packages.	[5+5]	
6.	6. Write a program to merge the contents of two files into a target file and retain non-		
0.	redundant words in the final file.	[10]	
	OR	[10]	
7.			
<i>,</i> .	client using TCP/IP sockets.	[10]	
	chefit using Te1/II sockets.	[10]	
8.a)	Write a program to simulate nested try statements in exception handling.		
b)	Differentiate between 'throw' and 'throws' usage.	[5+5]	
- /	OR	r 1	
9.a)	What is the need of thread synchronization? How is it achieved?		
b)	What is a daemon thread? What is its purpose?	[5+5]	
٥,	The is a decimal anomal without is no purpose.	[5,5]	

10.a) Describe Model-View-Controller architecture for application development.

b) What is the significance of adapter classes?