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## Third Semester MCA Degree Examination, Dec.2017/Jan.2018 **Programming using Java**

Max. Marks:100

	Time: 3 hrs.					
	Note: Answer any FIVE full questions.					
				(10 Marks)		
tice	1	a.	Mention the features of Java and explain.	(10 Marks)		
orac		b.	Explain type conversion and type casting.	(06 Marks)		
nalj		c.	Explain the operations of the following operators with example:	(04 Marks)		
as 1			(i) The ? operator (ii) The instances of keyword	(04 Marks)		
ated	_		D. C.	(04 Marks)		
2 a. Define const			Define constructor. Describe constructor overloading.  Write a Java program to demonstrate constructor overloading by finding volume			
ages I be	b. Write a Java program to demonstrate constructor overloading by finding vol			(06 Marks)		
y blank pages. = 50, will be treated as malpractice.		c.	Explain call by value and call by reference with suitable example.	(10 Marks)		
olan 50,		С.				
mg = 8	3	a.	What are irregular arrays? How do you display irregular arrays using their length	? (04 Marks)		
aini 42+	5	b.	Briefly explain the behavior of static members of a class with suitable example.	(08 Marks)		
rem eg,		c.	Describe regionMatches() method, with an example.	(08 Marks)		
the		С.				
on writ	4	a.	With suitable example, bring out the differences between final, finally and finaliz	e.		
nes ons	-	u.	(60)	(06 Marks)		
ss li ıatic		b.	What is dynamic method dispatch? Demonstrate with an example.	(06 Marks)		
cro		c.	What is meant by instance variable hiding? How to overcome it?	(04 Marks)		
onal I /or		d.	Mention the uses of superkeyword	(04 Marks)		
iago and			28			
w d ator	5	a.	What are interfaces? What are their benefits? Explain how it is implemented.	(10 Marks)		
dra ⁄alu		b.	Define package. Explain the access protection for class members.	(10 Marks)		
rily o ev				(0.4.3.5 - 1 - )		
ulso eal t	6	a.	Define multithread. Distinguish between multiprocessing and multithreading.	(04 Marks)		
mp pddr		b. What are two ways of creating a thread? Write a program to create a thread us		g any one of		
i, co on, a			the approaches.	(08 Marks)		
vers		C.	How do you create your own exception? Give an example.	(08 Marks)		
ansv ıtifi			The second from might to left norge	s the anniet		
our	7 a. What is an applet? Write an applet that scrolls a message from rig			(08 Marks)		
g ye			window.			
etin Iling		b.	Write the advantages of autoboxingover wrappers. Give suitable example to	(06 Marks)		
mpl			claims.	(06 Marks)		
ı co		c.	What are generics? Explain with an example.	© Warns)		
O A			C and Heating alogges and explain linked list class	(04 Marks)		
.1.	8	a.	List any four collection classes and explain linked list class.	(08 Marks)		
lote	b. What is TCP/IP client socket? Explain its constructors to create client socket. c. Explain the concept of event delegation? Demonstrate mouse event program.			(08 Marks)		
int N		c.	Explain the concept of event delegation: Demonstrate mouse event program.			
Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be						
dwJ			* * * *			