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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 to

Third Semester MCA Degree Examination, Dec.2013/Jan.2014 Programming with Java

	me: 3	3 hrs. Ma	x. Marks:100
1		Note: Answer any FIVE full questions.	.0
1	ੰਨ	Explain OOP principles that can be implemented in java.	(10 Marks)
•	а. b.	Explain the following: (i) Automatic type promotion in expressions (ii) B	twise operators
	Ų.	Explain the following . (1) Automatic type promotion in expressions (11) 22.	(10 Marks)
2		What are constructors? Explain constructor overloading with example.	(10 Marks)
	b.	What is method overriding? Explain how it allows java to support run-time	
		with an example.	(10 Marks)
3	a.	Explain how exception handling mechanism can be used for debugging a pro-	
			(10 Marks)
	b.	What are interfaces? Explain how it is implemented in java with suitable exa	mples.
			(10 Marks)
4	a.	Explain synchronization in multithreaded programming.	(05 Marks)
	b.	Explain file InputStreamClass.	(05 Marks)
	c.	What are generics? Explain its implementation in java.	(10 Marks)
5	a.	Explain different string methods used in StringBuffer class.	(10 Marks)
	b.	Explain all the string methods used to modify a string.	(06 Marks)
	c.	Explain how to search a soing for a specified character or substring.	(04 Marks)
6	a.	Explain the methods defined by collection interface.	(10 Marks)
	b.	Explain URL connection class.	(10 Marks)
7	a.	Explain the Applet skeleton and write an example program for an applet.	(10 Marks)
	b.	Name all the event classes and write a program on KeyEvent and MouseEv	ent classes each.
			(10 Marks)
8		white short notes on the following:	127
•	and	Auto boxing.	رن ان
	$C_{E^{-}}$	RMI	17
٠.	c.	JTree.	
	d.	JList.	(20 Marks)
	u.	VIDIO.	(=======)

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