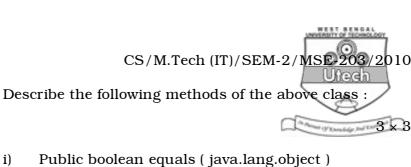
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		CS/M.Tech (IT)/SEM-2/MSE-2	203/201	lO	
		2010			
O	BJEC	CT ORIENTED SOFTWARE ENGINEERING	G & UMI	L	
Time Allotted: 3 Hours			Full Marks : 70		
		The figures in the margin indicate full marks.			
Ca	ndida	ates are required to give their answers in their o	own word	ls	
		Answer any <i>five</i> questions.	5 × 14 = 7	70	
1.	a)	Prove by a suitable code snippet that Dynas	mic Meth	ıod	
		Dispatch in Java is Run time and not Compil	le time.	5	
	b)	What are the differences between method	overloadi	ing	
		and method overriding?		4	
	c)	Mention the conditions of method overriding	in		
		Java SE 1.4.		4	
	d)	What addition is made to the above condi	ition list	in	
		Java SE 1.5 ?		1	

[Turn over

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۷.	a)	Differentiate between abstract class and interfaces.
	b)	Writen a note on the 'Significance of abstract methods
		and abstract classes". 3
	c)	State with suitable code snippet the rules of type
		casting in Java SE 1.4 in case of Binary and Unary
		operators for primitive data types. 2×4
3.	a)	What do you mean by checked and unchecked
		exceptions? State with suitable examples. $2 + 2$
	b)	How can you create your custom exception? 4
	c)	Draw a Control Flow Graph (CFG) showing the
		execution of try-catch-finally blocks. 3
	d)	Can a try block have no catch block?
	e)	If yes, justify whether it is rational to code it.
	f)	What is a throwable?
4.	a)	Differentiate between defination of array in Turbo C++,
		and Java SE 1.4.
	b)	How does Java SE 1.5 improve on it?
	c)	Name the FQN of the universal super class.
3030	09 (N	M.Tech) 2



- i) Public boolean equals (java.lang.object)
- Public string tostring() ii)
- iii) Protected void finalize()
- 5. Why do we use threads? Why is Java called maltithreaded?
 - With suitable code snippets, show how you can b) synchronize the following: 2×5
 - A block i)

d)

- ii) A method.
- c) When do we use join()?

1

6

- 6. a) Treating a complex number as an entity, write a program to add 2 complex numbers and show the result 7 accordingly.
 - When do you use wait() and notify()? Show via an b) 7 example.
- 7. Write a technical article 'cloning of objects' accompanied a) by suitable codes. 8
 - b) Write a short note on "object serialization'.

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