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No.	of	Printed	Pages	:	3

MCS-024

MCA (Revised)

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Term-End Examination

December, 2010

MCS-024 : OBJECT ORIENTED TECHNOLOGIES AND JAVA PROGRAMMING

Time: 3 ho	urs <u>Maximum Marks</u> :	Maximum Marks: 100		
	uestion. No. 1 is compulsory . Attempt any t uestions from the rest.	three		
1. (a)	Write a Java program to read the contents of binary file as integers and print out their values on the standard output.	10		
(b)	What are anonymous classes? Explain with a code fragment.	5		
(c)	What is the purpose of serialization of an object? How does the volatile modifier to a data type affect serialization?	5		
(d)	Justify "Java is a secure" and "architectural neutral" Language.	_. 5		
(e)	Write a program to generate a fibonaaci series.	5		
(f)	What is a synchronized block?	5		
(g)	What is the difference between the notify () and notify All () methods?	: 5		

2.	(a)	Explain the purpose of Inet Address class and list three of its methods.	5
	(b)	Explain the difference between	5
		(a & b) and (a & & b).	
		where a and b are logical expressions.	
	(c)	Explain with an example the use of the ternary operator.	5
	(d)	Java is architecture neutral, secure and distributed language. Justify.	5
3.	(a)	Develop an applet to display a solid circle that fits perfectly inside the outline of a square.	10
	(b)	What is the difference between a process and a thread? Also mention any three methods of thread class and describe briefly.	8
	(c)	What is grid layout?	2
4.	(a)	Write a Java applet to present pull down list of the seven colours (violet, indigo, blue, green, yellow, orange red) of a rainbow and allow the user to select one of the colours. Print out the index number of the selected choice.	10
	(b)	What are the principles of event delegation model? What are the sources of event and event listener interface?	7
	(c)	Explain briefly the concept of RMI.	3

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Write a Java program that draws a line, a
                                                         8
5.
     (a)
           triangle or a circle depending on whether
           2, 3 or 1
           point parameters are given to it:
           Line between the two points
           Triangle joining the three points
           Circle of default radius at that point
           What are checked and unchecked
      (b)
                                                          7
           exceptions? Explain with example.
           What is wrong with the following program
      (c)
                                                          5
           fragment? Make the needed changes to
            correct it.
            double d;
            d = 4.75;
            switch (d)
            case 0:
            case 1:
            case 2: { Println ("small");
                   break};
            case 3:
            case 4:
            case 5 : { println ("medium") ;
                    break \ ;
            default:
                     println ("large");
```

}