Code No: MC1321

## MCA II Semester Regular/Supplementary Examinations, May- 2016

## OOPS THROUGH JAVA

Time: 3 hours Max. Marks: 60

## Answer any FIVE Questions

		All Questions carry Equal Marks  *****	
1.	(a)	Write a program that reads an integer between 0 and 1000 and adds all the digits in the integer. For example, if an integer is 932, the sum of all its digits is 14.	6M
	(b)	Define Recursion. Illustrate with a program how a factorial is computed by use of a recursion method.	6M
2.	(a)	Discuss the use of super keyword and Write the two general forms for super.	6M
	(b)	Describe the various forms of implementing interfaces.	6M
3.	(a)	Differentiate between Java's Checked and Unchecked Runtime Exception	8M
	(b)	Write a program to illustrate the usage of try and catch blocks in Java.	4M
4.	(a)	Define Action Event. List and briefly discuss the main event classes in java.awt.event package	8M
	(b)	Describe Grid Layout with an example	4M
5.	(a)	With an example, explain how will pass parameters to an Applet.	4M
	(b)	Explain in details about JApplet and JFrame	8M
6.	(a)	Write and explain the Java programs to handle buttons and check boxes.	6M
	(b)	Define multithreading? Give an example of an application that needs multithreading	6M
7.	(a)	Write a java program to design a class using the inheritance and static that show all function of bank (withdrawl, deposit) and generate account number dynamically.	6M
	(b)	Write a Java program for handling mouse events.	6M

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## **Code No: MC1321/R13**

8. (a) The Fibonacci sequence is defined by the following rule: The first two 6M values in the sequence are 1 and 1. Every subsequent value is the sum of the two values preceding it. Write a Java program that uses both recursive and non recursive functions to print the nth value in the Fibonacci sequence.

(b) Write short notes on Icons and Labels

6M

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