Maximum Marks: 100

Time: 3 hours

MCA (Revised)

Term-End Examination

June, 2009

MCS-024 : OBJECT ORIENTED TECHNOLOGIES AND JAVA PROGRAMMING

Note		No. 1 is compulsory . Attempt any three questom the rest.	ion
1.	(a)	What are the major characteristics of the following:	8
		(i) procedure oriented approach.(ii) object oriented approach.	
	(b)	compare and contrast abstraction and encapsulation techniques? Also, give an example for comparision.	4
	(c)	Write steps to create a java applet displaying "Global Warming".	8
	(d)	Write the description, use and operations used for "Right Shift" and "Left Shift".	6
	(e)	Differentiate between "Final", "Finally" and "Finalize" statements.	6
	(f)	What is RMI? How can you create stub & skeleton? Write the steps involved.	8

1

2.	(a)	Describe any five constructors used to create string objects and any five methods used for handling string objects.	10
	(b)	Describe the "java.io" hierarchy and classify the input stream class.	7
	(c)	Write the difference between throw and throws.	3
3.	(a)	What is listener? Write a program to implement mouse motion listener.	10
	(b)	Write a java program to show inter thread communication.	10
4.	(a)	Discuss Layout and Layout Manager along five classes in java packages which implement it.	10
	(b)	Explain the significance of CONTAINER for Java GUI program.	5
	(c)	Write a program to show how a class implements two interfaces.	5
5.	(a)	Write programs to send and receive UDP datagrams. (Make separate sender and receiver program)	10
	(b)	Explain the life cycle of a servlet along with program which creates a simple servlet generating HTML to write "Welcome to IGNOU"?	10