

MCA (Revised)

Term-End Examination

June, 2007

MCS-024 (S): OBJECT ORIENTED TECHNOLOGIES AND JAVA PROGRAMMING

Tin	Time: 3 hours Maximum Marks: 10			
Note :		Question number 1 is compulsory . Attempt any three questions from the rest.		
1.	(a)	What is the difference in call-by value and call-by reference in java? Give one example of each.	6	
	(b)	What are the various methods used for Applet initialization and termination? Explain.	8	
	(c)	What is the finally block in java ? Explain.	4	
	(d)	Write a program in java to sort a list of n integers. (Use any sorting method)	6	
	(e)	What are inner classes in java ? Explain.	5	
	(f)	What is dynamic method dispatch in java? Explain.	8	
	(g)	What are the standard input and output streams in java?	3	



(a)	Explain suspend() and resume() functions and how these are used in threading.	8
(b)	What is toString() method in java? How is it used?	6
(c)	What is Numer Format Exception in java? Explain.	6
(a)	What are Java Beans? Describe various features of java beans in short.	6
(b)	What is the use of interfaces in java? Explain.	6
(c)	Discuss the various access rights used with a class in a java package.	5
(d)	If a derived class contains data and methods with the same name as in its base class, how can we access these base class methods and data?	3
(a)	What is an event in java? How is it handled?	4
(b)	How is polymorphism implemented in java? Explain with suitable example.	8
(c)	What are the advantages of servlets?	4
(d)	What are the cookies ?	4
(a)	Write an applet in java to display the order of execution of various methods used in applet's life cycle.	6
(b)	Write a program in java to input a string. If input string is not equal to "Java" an exception is thrown called "invalid input".	6
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(c) Consider the following class hierarchy.



Explain the order of execution of various constructors in classes A, B, C and D with example. 8