No. of Printed Pages : 4

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MCS-024

MCA (Revised)

1)		Term-End Examination			
01042	June, 2010				
Ċ	5.	MCS-024 : OBJECT ORIENTED TECHNOLOGIES AND JAVA PROGRAMMING			
	Time : 3	hours Maximum Marks :	Maximum Marks : 100		
	Note : Q. No. 1 is compulsory. Attempt any three question from the rest.				
	1. (a)	Consider a class that stores a Bank account holder's account number, ATM card number, account balance and ATM PIN. Write a program to store the data onto a disk file, except for the account balance and ATM PIN. Use serialization and transient variables.	6		
	(b)	What makes compiled JAVA programs platform independent ? Explain.	4		
	(c)	Explain the significance of PATH and CLASS PATH.	5		
	(d)) Is this a complete and legal comment ? / * // */ Justify .	2		
	(e)	Are inner class secure and useful ?	5		
	(f)	What are the two fundamental mechanisms for building a new classes of a existing class ?	5		
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	(g)	The members of which classes can access 5 members of a class in a particular package ?
	(h)	Explain the significance of each argument 5 in the function main (string args []).
	(i)	Why cannot the "abstract" method modifier 3 be used together with the "native" modifier ?
2.	(a)	Differentiate the following and support with example : 2.5x4=10
		(i) Final and static member
		(ii) Inheritance and Aggregation
		(iii) Abstract class and Interface
		(iv) String and String Buffer
	(b)	Write a program to implement the followingoperations on a string :3.5x2=7
		(i) Convert to uppercase
		(ii) Convert to lowercase
	(c)	What are user - defined exceptions ? 3
3.	(a)	What is the difference between checked and 3 unchecked exceptions ?

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(5)	Create a class account with the following data members :		
	(i)	account id	
	(ii)	name	
	(iii)	current balance	

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and implement the member functions :

(i) Withdraw

(ii) deposit

(c) How multiple inheritance is achieved in 3Java ? Explain with an example.

 (d) Write an applet that prints "Here" at the g current cursor position whenever the mouse left button is clicked.

4. (a) Write short notes on following :

(i)	Interthread communication	3
(ii)	Event Handling in Java	3

(b) What is a layout managers ? Explain 6

layouts with example.

(c) Write a Java program to set up JDBC and 8 execute the following SQL statement on a database table employee-t with the fields emp-id, emp name, emp-department, empbasic "SELECT * FROM employee-t where emp-basic < 10000;

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- 5. (a) Write a program to sort the list given as 10 command line arguments using bubble sort.
 - (b) What is Java Bean ? What are its 5 advantages ?
 - (c) What is Introspection in Java Beans ? 5Illustrate with a code fragment.