END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY-2010

Paper Code:MCA 206		• • •	
_		44206	
Time	e:3 Ho	ours Maximum Marks : 60	
1	Note: (Question 1 is compulsory. Attempt any four question from Q. 2 to Q. 6	
Q1.	Atto	empt <u>any eight</u> parts: (2.5*8=20)	
ŲI.	(a)	empt <u>any eight</u> parts: (2.5*8=20) What is Java Virtual Machine? Explain it.	
	(b)	Draw the AWT class hierarchy.	
	(c)	Differentiate between Method overloading and Method Overriding.	
	(d)	How do you create a button labelled "GGSIPU"? How do you change a label on button?	
	(e)	How do interfaces and abstract classes differ in Java? Give an example of each type?	
	(f)	Define an exception and discuss how used defined exceptions can be implemented in Java.	
	(g)	What is a difference between HTML and DHTML?	
	(h)	Discuss the requirment of each Keyword in the following Java program statement:-	
	(i)	"public static void main(String args [])" Define Multithreading. How is a thread different from a process?	
Q2.	(a)	Write a program using array/vectors to obtain the output a: (5)	
		1 2	
		1 2 3	
		1 2 3 4	
	<i>a</i> >	1 2 3 4 5	
	(b)	Write a program to construct a binary tee of numbers and implement function for tree traversal. (5)	
02	()	(i) Preorder (ii) Postorder (iii) Inorder	
Q3.	(a)	Write a Program using AWT/Layout Managers to draw a Human face using an	
	(b)	applet. (5) Write a Program to implement TCP/UDP Clent Server Architecture Program. (5)	
	(6)	write a 110gram to implement 10170D1 Cient Server Aremtecture 110gram. (3	,
Q4.	(a)	Design a HTMP/DHTML based Web Page for displaying your own profile on the	•
		Web using the appropriate JAVASCRIPT validations. The form can contain	
		various set of information like Enrollment no, Name, Age, Course Name and	
	(1-1)	College Name etc. (5)	
	(b)	Write the code snippet for: (5) (6) Set the parameter in a text field to !#!	
		(i) Set the password character in a text field to '#'.	
		(ii) Check Whether the CTRL Key was down when a key event occurred.	

- Q5. (a) Create a package called "math", then use the Package in your program to perform different functions like Addition, Subtraction, Multiplication and Division. (5)
 - (b) What is the difference between the Reader and Writer classes? Show the stream class hierarchy as defined in java.io.package.
- Q6. (a) Write a vector based program to:

(5)

- (i) Create a vector with initial capacity of 5 element.
- (ii) Decrease the size of vector by 2 element.
- (iii) Display all the elements from the vector.
- (iv) Fetch a specific value from a vector on the user choice and replace it with value specified by the user.
- (v) Display all the elements from the vector.
- (b) Write short notes on (any two):-

(2*2.5=5)

(i) JavaBeans (ii)Servlets (iii) Swings