END TERM EXAMINATION

FOURTH SEMESTER [MCA], MAY-2011

Paper Code : MCA – 206	*Subject : Java Programming & Website Design*
Paper ID : 44206	

Time: 3 Hours   *Maximum Marks : 60*

Note : Question 1 is compulsory. Attempt one question from each unit.

Q. 1. (a) Define wrapper classes.   **(2×10)**

(b) What do you mean by uncaught exception?

(c) Java is a freeform language.Comment.

(d) What do you mean by package?

(e) Explain the term synchronization in java.

(f) What are applets?

(g) Define abstract classes in java.

(h) What are delegates?

(i) Define java beans.

(j) What are dynamic web pages?

UNIT – I   (10)

Q. 2. What is the difference between a class and interface?what is the use of interface? Write a program in java to illustrate the use of an interface.

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Write java program to take input for employee name,employee id,designation salary and convert the salary entered by the user in words.

UNIT – II   (10)

Q. 3. Describe the java throwable class hierarchy and the types of exceptions. Can you claim multiple exceptions in a method declaration?Illustrate by means of an example.

OR

What is the importance of thread synchronization in multithreading ? Give some examples of resource corruption when multiple thread conflict. How do you synchronize Conflicting threads?

UNIT – III   (10)

Q. 4. What is event delegation model? What are its basic components? Write program to simulate a simple calculator using AWT.

OR

Write an applet to show the number of visits made to a webpage.The count should be stored on a server side in a file.Every time a page is visited the applet should send a request to the server and the server should increase the count and send that count to the applet.the applet should then display the count in a message.

UNIT – IV   (10)

Q. 5. Design a HTML based webpage for displaying department profile on the web page using the appropriate java script validations. The form should contain the following information department id, department name, number of employees, project associated with each employee, designation wise salary of employee.

OR

What are swings in java? Write a program in java to illustrate the use of one swing control.