END TERM EXAMINATION

THIRD SEMESTER [MCA] DECEMBER 2013

Paper Code: MCA 205	**Subject: Java Programming**
	(Batch 2010 onwards)

Time: 3 Hours

Note: Attempts any five questions, including Q.no1 is compulsory. Select one question from each unit.

Q.1 Attempt all-   10 x 2=20

    a)   Differentiate String and String Buffer.
    b)   What is 'out' in System.out.println ().
    c)   Give two major requirements of event listeners.
    d)   What is dynamic method dispatch?
    e)   What are Wrapper Classes?
    f)   What is applet in java?
    g)   Define adapter Classes
    h)   Give the uses of final keyword.
    i)   What is numeric promotion?
    j)   What does the following statement display-
       String s=" six, "+3+3;
       System.out.println(s);

UNIT-I

Q.2

    a)   What is JVM? Explain the architecture of JVM.   5
    b)   What is Interface? Write a program in java to explain the concept of multiple inheritances by using interface.   5

OR

Q.3

    a)   Discuss access protection in java classes and packages.   5
    b)   Write a program in java to search a particular String stored in an array.(The elements   should be entered in array through keyboard).   5

UNIT-II

Q.4

a) What do you mean multithreading? Explain suspending, resuming and stopping threads in java?
b) What are different keywords in java Exception? Explain briefly, how they work? Give their examples. 2 x 5=10

OR

Q.5

a) What is difference between process-based and thread-based multitasking? Describe thread priorities and synchronization. 5
b) Describe the functions of File class in java? 5

UNIT-III

Q.6

a) What are the different models of Event-Handling in java? Write a program to display the sum of two numbers of two textboxes within third textbox on clicking ADD button on the screen. 5
b) Explain JDBC Application architecture and steps for obtaining a connection with database. 5

OR

Q.7

a) Explain Collection Interface and give examples of Collection Classes. 5
b) Explain various JDBC models. 5

UNIT-IV

Q.8

a) What is RMI? Explain steps involved in developing an RMI object. 5
b) Write short notes on (1) Comparisons of Swing with AWT (2) JFC. 5

OR

Q.9

a) What is java bean? Explain its architecture and packing beans-the manifest and the .jar. 5
b) What is Swing? Explain the advance controls of Swings. 5

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