USN

Third Semester MCA Degree Examination, December 2011 **Programming with JAVA**

Time: 3 hrs. Max. Marl			Max. Marks:100
Note: Answer any FIVE full questions.			
1	b.	Briefly explain the three OOPS principles. What is type casting? Illustrate with an example. What is meant by promotion? Give an example. Explain the operations of the following operators, with example: i) Left shift, right shift ii) The ? operator.	(06 Marks) by automatic type (08 Marks) (06 Marks)
2	b.	Define constructor and overloaded constructor. Demonstrate it by writing find the volume of a box. Explain call by value and call by reference, with suitable examples. Explain: i) Static ii) Finalize() method.	g a Java program to (10 Marks) (06 Marks) (04 Marks)
3	a. b. c.	Explain how superclass constructors are called using super. What is dynamic method dispatch? Demonstrate with the help of example What is an exception? How does Java handle exception? List some of types of exception that might occur in Java.	(05 Marks) c. (08 Marks) the most common (07 Marks)
4	b.	Define multithread. Distinguish between the multiprocessing and multithread is synchronization? Explain how interthread communication camultithreading. Mention any five byte stream classes and write their meaning.	reading. (05 Marks) an be achieved in (05 Marks) (10 Marks)
5	а. b. c.	Explain the following: i) Enumeration ii) Type wrapper iii) Autoboxing and autounboxing. What are the generics? Write a simple generic program. Define a string. Explain with example two string methods to search a string character or substring.	(08 Marks) (06 Marks) ring for a specified (06 Marks)
6	a. b.	Explain the following: i) Primitive type wrappers ii) Collection interfaces. Mention any four collection classes. Explain with example linked list class	(10 Marks) ss. (10 Marks)
7	a. b.	What is TCP/IP client sockets? Explain the two constructors used to cr Define HHPURL connection class. Explain any four methods of URL cla	(08 Marks)

(04 Marks) What are inet4address and inet6address?

What is an applet? Write an applet program that scrolls a message from right to left across 8 a. the applet window. (08 Marks) (06 Marks) b. Define the event, event source, and event listener.

What is swing? Explain the two key features of swing.

(06 Marks)