USN

Third Semester MCA Degree Examination, June/July 2017 **Programming Using Java**

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions.			
1	a. b. c. d.	Write a short note on: i) JVM ii) JDK. What are the primitive data types available in Java? What is type casting? Explain automatic type promotion in expressions with rules	(06 Marks) (04 Marks) (04 Marks) and demo (06 Marks)
2	a.	Explain the different types of iteration statements and jump statements with examp	le.
	b.	Explain the concept of default constructor and a parameterized constructor with an	(06 Marks)
	C.	Explain the use of 'this' keyword with example.	(04 Marks)
3	a.	Write a Java program to find the sum of array elements by using 'Enhanced for loo	p'. (04 Marks)
	b. c.	Explain the operations of left shift and right shift operators with example. Define a string. Explain any five methods present in a string class to compare string.	(06 Marks)
4	a. b. c.	What is dynamic method dispatch?	(10 Marks) (04 Marks) (06 Marks)
5	a.	What are interfaces? What are their benefits? How to implement multiple interface	s in Java? (08 Marks)
	b. c.	Define a package. Explain the creation of a package using a suitable example.	(08 Marks) (04 Marks)
6	a.	What is an exception? Explain exception handling mechanism with proper example	(05 Marks)
	b. c.	How to define multiple catch blocks? What is synchronization? Explain how inter thread communication can be ach	(05 Marks)
7	a.	Explain the following: i) Values() and valueof() methods; ii) Autobo	
	b.	What are generics? What is the importance of generics? Explain with example	
	c.		05 Marks)
8		Write a short note on:	

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 - Event delegation model
 - Two key features of swings
 - URL connection class
 - Linked list class.

(20 Marks)