USN

Third Semester MCA Degree Examination, Dec.2017/Jan.2018 Programming using Java

Max. Marks:100

	Max. Marks	5.100
ime:	3 hrs. Note: Answer any FIVE full questions.	
l a. b	Mention the features of Java and explain. (96) Explain type conversion and type casting. Explain type conversions of the following operators with example:	Marks) Marks) Marks)
2 a	Define constructor. Describe constructor overloading. Write a Java program to demonstrate constructor overloading by finding volume of a (0)	4 Marks) box. 6 Marks) 0 Marks)
3	it an engine Matches() method, with an example.)4 Marks))8 Marks))8 Marks)
	 With suitable example, bring out the differences between final, finally and finalize. What is dynamic method dispatch? Demonstrate with an example. What is meant by instance variable hiding? How to overcome it? 	06 Marks 06 Marks 04 Marks 04 Marks
5	a. What are interfaces? What are their benefits? Explain how it is implemented.b. Define package. Explain the access protection for class members.	(10 Marks (10 Marks
6	 a. Define multithread. Distinguish between multiprocessing and multithreading. b. What are two ways of creating a thread? Write a program to create a thread using the approaches. 	(04 Mark any one (08 Mark (08 Mark
7	 a. What is an applet? Write an applet that scrolls a message from right to left across window. b. Write the advantages of autoboxingover wrappers. Give suitable example to judiciams. c. What are generics? Explain with an example. 	the apple (08 Markustify you (06 Markustify))
8	 a. List any four collection classes and explain linked list class. b. What is TCP/IP client socket? Explain its constructors to create client socket. c. Explain the concept of event delegation? Demonstrate mouse event program. 	(04 Mar (08 Mar (08 Mar