GBCS SCHEME

USN		16/1	17MCA32	
Third Semester MCA Degree Examination, Dec.2018/Jan.2019				
Java Programming				
4				
Time: 3 hrs.			Iarks: 80	
Note: Answer FIVE full questions, choosing ONE full question from each module.				
1	a.	Explain the key attributes of Object Oriented Principles.	(0(M1)	
1	b.	Explain the following: i) Type casting ii) this.	(06 Marks)	
	c.	Explain the use of break as a form of 'goto' with an example.	(06 Marks) (04 Marks)	
	(OT MAINS)			
OR				
2	a.	Explain the left shift and right shift operators.	(04 Marks)	
	b.	What is Enhanced for loop? Write a Java program to search an element in an	array using	
		enhanced for loop.	(06 Marks)	
	C.	Write any three methods of String class to compare strings with syntax and exam	TO THE RESERVE THE PARTY OF THE	
			(06 Marks)	
		Module-2		
3	a.	Explain about static variable, static method and static block, with suitable example.	le	
		(06 Marks)		
	b.	Explain about method overloading and constructor overloading, with suitable pro	gram.	
			(06 Marks)	
	C.	What is varargs? What are the restrictions of varargs?	(04 Marks)	
OR				
4	a.	How Super class constructors and members are called in Java?	(06 Marks)	
-	b.	Explain the following:	(00 Marks)	
		i) Dynamic method dispatch (ii) Abstract class.	(10 Marks)	
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		Module-3		
5		What are Interfaces? How to implement multiple interfaces in Java?	(06 Marks)	
		Define a Package. Explain the creation of package using any example.	(06 Marks)	
	c.	What do you mean by Static import?	(04 Marks)	
OR				
6	a.	What is an Exception? Give the general structure of an exception handling mechanism	miam Have	
U	u.	to define multiple catch blocks?	(08 Marks)	
	b.	Explain how to create your own exceptions. Give an example.	(08 Marks)	
			(00.200.100)	
Module-4				
7				
	3	multithreading using Producer and Consumer Program.	(10 Marks)	
	b.	Define Thread and Multithreading. What are the 2 ways of creating threads?	(06 Marks)	

OR

8 a. What is Enumeration? Explain values () and valueOf() methods with example. (08 Marks)

b. Explain the following:

i) Type Wrappers ii) Autoboxing and Autounboxing.

(08 Marks)

Module-5

9 a. What are Applets? Explain the life cycle of an Applets using an example program. (08 Marks)

b. Write a Java Program which uses DatagramSocket to demonstrate client – server communication. (08 Marks)

OR

10 a. Explain the following:

i) URLConnection ii) Collection Interfaces.

(08 Marks)

b. Explain ArrayList class and LinkedList class, with suitable example.

(08 Marks)