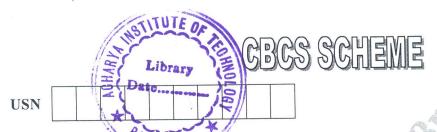
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16/17MCA32

Semester MCA Degree Examination, Dec.2019/Jan.2020 **Java Programming**

Time: 3 hrs.

Max. Marks: 80

(08 Marks)

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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- 1 ▼		~ "	V.H			_	_

1 a.	Explain briefly the Object Oriented principles of Java.	(08 Marks)
b.	Discuss the various primitive data types used in Java.	(08 Marks)

2	2	Explain the working of enhanced for loop with suitable example.	(08 Marks)
And .			(00 Maulia)
	b.	What is StringBuffer? What is its usage? Write suitable example.	(08 Marks)

(00 Marks)	constructor with suitable example	a Evn
d mathed overriding? Explain with	1 1 1 alina a	a. LAP
d method overriding? Explain with	between methods overloading a	b Wha
(08 Marks)		
(0011201-1-)	X. T	prop

OR

1	0	What are constructors? Explain constructor overloading with examples.	(08 Marks)
-	a.	What are constructors. Express	(08 Marks)
	h	Explain the following with suitable example: i) Super ii) Final.	(Uo Marks)

	Explain different access specifiers used in Java with suitable example.		(08 Marks)
a.	Write a Java program for the implementation of multiple inheritance us	sing in	nterfaces to
υ.	calculate the area of a rectangle and triangle.		(08 Marks)

OR

6	0	What is an exception? How exception can be handled in Java with example.	(08 Marks)
U	a.	What is an exception. How exception	
	h	What are packages in Java? Why is it required to package Java program? Give	example.
	U.	What are passages	(08 Marks)

7	0	What is multi threading? Write a Java program to create multiple threads	in Java by
/	a.	implementing Runnable interface.	(08 Marks)
	h	What is enumeration? Explain values() and valuesOf() methods.	(08 Marks)

OR

0	0	What is autoboxing? Illustrate with a programming example.	
0	a.	What is autoboxing. Thastrate than ap-	(00 N.T. 1)
-		the state of the state of the large with an example	(08 Marks)
	1_	What is thread? Explain how to create threads in Java with an example.	(00 11201-1-0)
	n	What is thicau. Explain now to ordate and other	

Module-5

0	а	What is an applet? Write a Java applet program which handles keyboard event.	(Uo Marks)
	a.	What is an appear	(08 Marks)
	h	Write a note on Swing Button.	(00 Marks)

OR

10		With an example, explain the LinkedList collection classes.	(08 Marks)
10	a.	With an example, explain the Emile	(08 Marks)
	b.	Explain about URL connection class.	(00 11111111)