M.C.A. 1st Semester (MCA 2 Year Programme) w.e.f. - 2020-2021 Examination, November-2023 OBJECT ORIENTED PROGRAMMING USING JAVA Paper-20MCA21C1

Time allowed: 3 hours] [Maximum marks: 80

Note: Students shall be required to attempt five questions, selecting at least one question from each unit. All questions shall carry equal marks. Question No.1 will be compulsory.

1. (a) What is the Static variable?

- 11111

111

 $8 \times 2 = 16$

(b) What do you mean by Automatic Garbage Collection?

from Interfac

- (c) What is synchronization?
- (d) What is finally keyword?
- (e) What is the Iterative Statement?
- (f) What is Paint mode in Graphics?
- (g) What is Array?
- (h) What is Stream?

are the types isin'U ceptions? Explain

2. What do you mean by Genesis and Evolution of the Java Language? Explain the characteristics of Java with example.

A.	-	$(2) \qquad \qquad 670$	04-N
3.	50.116	How StringBuffer class works? How String class differ from String class? Explain Buffer and String.	String-
	(b)	What is Array? Explain with Example.	4
1	(c)	What are Operators in JAVA? Explain example.	n with
in h	No. 19	Unit-II	
4.	(a)	How Package used in JAVA? What are the t	Vnes of
pil		Package? Explain with example.	10
	(b)	What is Access Protection in Pac Explain.	京原 一丁賞
5.	(a)	What is Multiple Inheritance? How it is di from Interface in JAVA? Explain with ex	fferent ample.
	(b)	example.	6
6.	(a)	Unit-III How Exception Handling works in Java? are the types of exceptions? Explain example.	
	(b)	What is Random Access Files? Explain example.	12 n with

7. Explain the following with example:

6+5+5

- (a) Commonly Constructors used in Multithreading
- (b) I/O Basic and I/O Classes
- (c) Reading and Writing on File

Unit-IV

- 8. Why Applet is not a pure Java component? How is Applet different from the main () method? Explain the life cycle of Applet with any four inbuilt methods.
- 9. What is Window Fundamentals? What is AWT? How AWT classes are heavyweight components? Explain AWT classes and methods with examples.