Printed Page:-	Subject Code:- AMCA0201N			
	Roll. No:			
NOIDA INSTITUTE OF ENGINEERING A	AND TECHNOLOGY, GREATER NOIDA			
(An Autonomous Institute Affiliated to AKTU, Lucknow)				
MCA				
SEM: II - CARRY OVER THEORY EXAMINATION - SEPTEMBER 2022				
Subject: Object Oriented Programming with JAVA				
Time: 3 Hours	Max. Marks: 100			
General Instructions:				
1. The question paper comprises three sections, A, B, an	nd C. You are expected to answer them as directed.			
2. Section A - Question No- 1 is 1 marker & Question N	-			
3. Section B - Question No-3 is based on external choice				
4. Section C - Questions No. 4-8 are within unit choice of	, ,			
5. No sheet should be left blank. Any written material at	fter a blank sheet will not be evaluated/checked.			
SECTION	A 20			
1. Attempt all parts:-				
1 The break statement causes an exit from	loop. [CO1]			
(a) innermost				
(b) outermost				
(c) break statement causes an exit fro	m program			
(d) Depends on program				
1 Which feature of OOPS describes the reusab	ility of code? [CO1]			
(a) Abstraction				
(b) Encapsulation				
(c) Polymorphism				
(d) Inheritance				
1-c. A constructor can call another overloaded co	onstructor using the keyword in Java. [CO2] 1			
(a) super				
(b) local				
(c) con				
(d) this				

1-d.	Which of the following is used to declare, construct, and initilize an array? [CO2]	1
	(a) int arr $[][] = \{1, 2, 3, 4\};$	
	(b) int [] $arr = (1, 2, 3)$;	
	(c) int [] arr = {};	
	(d) int arr $[] = \{1, 2, 3\};$	
1	Which of these keywords is not a part of exception handling? [CO3]	1
	(a) try	
	(b) finally	
	(c) thrown	
	(d) catch	
1	In which of the following package Exception class exist? [CO3]	1
	(a) java.file	
	(b) java.lang	
	(c) java.io	
	(d) java.util	
1	Annotation type definition looks similar to which of the following? [CO4]	1
	(a) Method	
	(b) Class	
	(c) Interface	
	(d) Field	
1	Which of these stream contains the classes which can work on character stream? [CO4]	1
	(a) Input Stream	
	(b) Output Stream	
	(c) Character stream	
	(d) All of the above	
1	Give the abbreviation of AWT? [CO5]	1
	(a) Applet Windowing Toolkit	
	(b) Abstract Window Toolkit	
	(c) Absolute Windowing Toolkit	
	(d) None of the above	
1	Which of these is Basic interface that all other interface inherits? [CO5]	1

	(c) List		
	(d) Collection		
2. Attempt	pt all parts:-		
2.a.	Define the term Bytecode. [CO1]		2
2.b.	Define finalize() method. [CO2]		2
2.c.	Mention the default package in Java. Which package should be imported to u class? [CO3]	se Scanner	2
2.d.	What is the difference between InputStream and OutputStream in Java? [CO4]		2
2.e.	Justify the statement "Swing is platform independent". [CO5]		2
	SECTION B	30	
3. Answer	er any five of the following:-		
3	Illustrate the difference between break & continue when they occur in a loop. [CO	1]	6
3	Define wrapper class & its need in java program. [CO1]		6
3-c.	Illustrate constructor overloading with an example. [CO2]		6
3-d.	Illustrate the use of abstract class with example. [CO2]		6
3.e.	How to create customized exception in Java. [CO3]		6
3.f.	Explain the purpose of the join() method with an example. [CO4]		6
3.g.	Describe addActionListner(), addItemListner(), addTextListner(). [CO5]		6
	SECTION C	50	
4. Answer	er any one of the following:-		
4-a.	Define the JVM architecture with suitable diagram. [CO1]		10
4-b.	Define Iteration. Differentiate between an empty loop & an infinite loop. State one similarity between while & for loop. [CO1]		10
5. Answer	er any one of the following:-		
5-a.	Write a Program in Java to override a method of Parent class into Child class. [CO2]		
5-b.	Write a Program in Java to create a class that implements two interfaces. [CO2]		
6. Answer	er any one of the following:-		
6-a.	Describe the scenario (with example) where the following unchecked exception. ArithmeticException, NullPointerException, NumberFormat		10

(a) Set

(b) Array

ArrayIndexOutOfBoundsException. [CO3] 6-b. Write a program in Java to handle ArithmeticException using try-catch. [CO3] 7. Answer any one of the following: 7-a. Write short notes on following methods of File: a) write() b) flush() c) close() d) read() [CO4] 7-b. Write a program to write any string to a file. [CO4] 8. Answer any one of the following:-

10

10

Demonstrate how an Array can be converted into ArrayList. [CO5]

Write a Java program to retrieve data from the database. [CO5]

8-a.

8-b.