Printed Page:- 04 Subj	ect Code:- AMCA0201N			
Roll.	No:			
NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA				
(An Autonomous Institute Affiliated to AKTU, Lucknow)				
MCA				
SEM:II CARRY OVER THEORY EXAMINATION-AUGUST 2023				
Subject: Object Oriented Programming with JAVA				
Time: 3 Hours General Instructions:	Max. Marks: 100			
IMP: Verify that you have received the question paper w	ith the correct course, code, branch etc.			
1. This Question paper comprises of three Sections				
Questions (MCQ's) & Subjective type questions.	, ,			
2. Maximum marks for each question are indicated on r	ight -hand side of each question.			
3. Illustrate your answers with neat sketches wherever n	ecessary.			
4. Assume suitable data if necessary.				
5. Preferably, write the answers in sequential order.	3			
6. No sheet should be left blank. Any written mo	iterial after a blank sheet will not be			
evaluated/checked.				
SECTION A	20			
1. Attempt all parts:-				
1-a. Which among the following feature doe	s not come under the concept of 1			
OOPs? (CO1)				
(a) Data binding				
(b) Data hiding				
(c) Platform independent				
(d) Message passing				
1-b. Which of the following is a type of polymorphic p	phism in Java? (CO1) 1			
(a) Compile time polymorphism				
(b) Design time polymorphism				
(c) Multiple polymorphism				
(d) Multilevel polymorphism				
	the method of a super class or 1			
1-c. The annotation used in Java to override interface by the subclass or implementing of	'			
	1033 13 (CO2)			
(a) @FunctionalInterface				

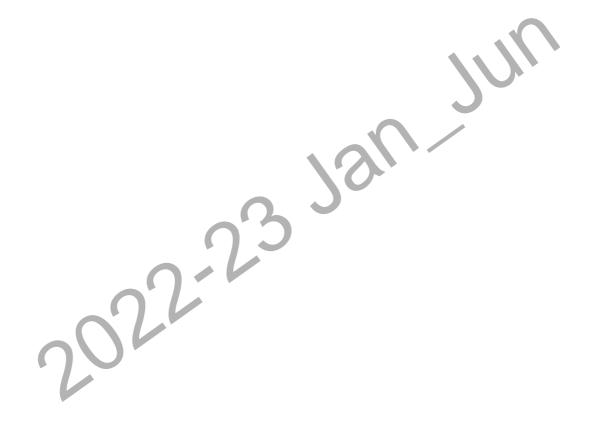
	(b) @Override	
	(c) @super	
	(d) @subclass	
1-d.	Which of these operators is used to allocate memory to array variable in Java? (CO2)	1
	(a) malloc	
	(b) alloc	
	(c) new	
	(d) new malloc	
1-e.	Which of the following statements is true about exception handling in Java: (CO3)	1
	(a) A try block can have many catch blocks but only one finally block	
	(b) A try block can have many catch blocks and many finally blocks	
	(c) A try block must have one finally block for each catch block	
	(d) A try block must have at least one catch block to have a finally block	
1-f.	Which of these method of class String is used to obtain length of String object? (CO3)	1
	(a) get()	
	(b) Sizeof()	
	(c) lengthof()	
	(d) length()	
1-g.	Which of these method of Thread class is used to find out the priority given to a	1
	thread? (CO4)	
	(a) get()	
	(b) ThreadPriority()	
	(c) getPriority()	
	(d) getThreadPriority()	
1-h.	Which of the following is not pre defined annotation in Java? (CO4)	1
	(a) @Deprecated	
	(b) @Overriden	
	(c) @Target	
	(d) @FunctionInterface	
1-i.	In Java, what do you call an area on the screen that has nice borders and various buttons along the top border? (CO5)	1

	(a) A window	
	(b) A screen	
	(c) A box	
	(d) A frame	
1-j.	List, Set and Queue Collection. (CO5)	1
	(a) extends	
	(b) implements	
	(c) both of the above	
	(d) none of the above	
2. Atte	mpt all parts:-	
2.a.	Describe the command line argument passing mechanism. (CO1)	2
2.b.	Explain default constructor. (CO2)	2
2.c.	How we can create string objects in Java? (CO3)	2
2.d.	What does run() method do? (CO4)	2
2.e.	What are the basic interfaces of Java Collections Framework? (CO5)	2
	SECTION B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Distinguish between if statement & switch statement. (CO1)	6
3-b.	Demonstrate for and for-each loop with an example. (CO1)	6
3-c.	Define following: Garbage collector and lambda expression. (CO2)	
3-d.	Differentiate between a class & interface. (CO2)	6
3.e.	Demonstrate the implementation of unchecked exceptions. (CO3)	6
3.f.	Write steps how a java application can store and read data from a file? (CO4)	6
3.g.	Differentiate between Array and ArrayList. (CO5)	6
	SECTION C	50
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Explain object oriented programming concepts in Java. (CO1)	10
4-b.	Explain class diagram and object diagram in details. (CO1)	10
5. Ansv	wer any <u>one</u> of the following:-	
5-a.	Describe method overloading and overriding with example in Java? (CO2)	10
5-h	Write a program in Java to print the Jargest element in an array (CO2)	10

6. Answer any one of the following:-6-a. Define package in java and also explain import and execution of package with 10 example. (CO3) 6-b. Write a program in Java to handle an exception using multiple catches. 10 (CO3) 7. Answer any one of the following:-7-a. Discuss and elaborate life cycle of thread? 10 (CO4) 7-b. 10 Explain annotation and its types, give also example. (CO4) 8. Answer any one of the following:-Describe different Layout Managers in java. 8-a. (CO5) 10

Explain HashSet and HashMap in java with suitable examples.

8-b.



10

(CO5)