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Printed Page:- 04	Subject Code:- ACSE0302
	Roll. No:
NOIDA INSTITUTE OF ENGINEERING	AND TECHNOLOGY, GREATER NOIDA
	Affiliated to AKTU, Lucknow)
В. ⁻	Гесh
SEM: III - CARRY OVER THEOR	Y EXAMINATION - AUGUST 2023
Subject: Object Oriente	ed Techniques using Java
Time: 3 Hours	Max. Marks: 100
General Instructions:	
IMP: Verify that you have received the question p	paper with the correct course, code, branch etc.
1. This Question paper comprises of three Sec	ctions -A, B, & C. It consists of Multiple Choice
Questions (MCQ's) & Subjective type questions.	
2. Maximum marks for each question are indicat	ed on right -hand side of each question.
3. Illustrate your answers with neat sketches whe	rever necessary.
4. Assume suitable data if necessary.	
5. Preferably, write the answers in sequential ord	er.
6. No sheet should be left blank. Any write	ten material after a blank sheet will not be
evaluated/checked.	
SECTIO	ON A 20
1. Attempt all parts:-	
1-a. What is a Loop in Java programming	language? [CO1] 1
(a) A Loop is a block of code th	nat is executed repeatedly as long as a condition
is satisfied.	, , ,
(b) A Loop is a block of code satisfied.	e that is executed only once if the condition is
(c) A Loop is a block of coo	de that is executed more than 2 times if the
condition is satisfied.	
(d) None of these	
1-b. What is the output of the below Java	program with FOR loop?
for(int j=0; j<5; j++)	
System.out.print(j + ","); [CO1]	
(a) 1,2,3,4	

(b) 0,1,2,3,4

(c) Compiler error

· (-1) 0 1 2 2 4

1-c.	Overloaded functions are required to? [CO2]
	(a) have the same return type
	(b) have the same number of parameters
	(c) perform the same basic functions
	(d) None of the above
1-d.	Which of these is an incorrect Statement? [CO2]
	(a) It is necessary to use new operator to initialize an array
	(b) Array can be initialized using comma separated expressions surrounded by curly braces
	(c) Array can be initialized when they are declared
	(d) None of the mentioned
1-e.	Choose the correct syntax of a Java Package below.[CO3]
	(a) package PACKAGE_NAME;
	(b) package PACKAGE_NAME.*;
	(c) pkg PACKAGE_NAME;
	(d) pkg PACKAGE_NAME.*;
1-f.	method of class String is used to extract a single character from a String
	object?[CO3]
	(a) CHAR AT()
	(b) charat(){}
	(c) charAt()
	(d) ChatAt()[]
1-g.	Identify the state that is not the part of thread life cycle[CO4]
	(a) dead (b) runnable
	(c) running
	(d) none of the above
1-h.	classes can return more than one character to be returned to input
1-11.	stream[CO4]
	(a) BufferedReader
	(b) Bufferedwriter
	(c) PushbachReader
	(d) CharArrayReader

1-i.	Which of these events generated when a button is pressed? [CO5]	1
	(a) ActionEvent	
	(b) WindowEvent	
	(c) ItemEvent	
	(d) KeyEvent	
1-j.	Which exception is thrown by the getConnection() method of the DriverManager class?[CO5]	1
	(a) ConnectionNotFoundException	
	(b) IOException	
	(c) SQLException	
	(d) ReadException	
2. Atten	npt all parts:-	
2.a.	Explain sub class. [CO1]	2
2.b.	What is overriding of methods? [CO2]	2
2.c.	Which are the ways to access package from another package? Explain with example.[CO3]	2
2.d.	Explain the concept of countDownLatch.[CO4]	2
2.e.	List down the major advantages of the Generic Collection. [CO5]	2
	SECTION B	30
3. Answ	er any <u>five</u> of the following:-	
3-a.	Explain the working of if-else-if ladder. [CO1]	6
3-b.	Explain the importance of using break in switch statement. [CO1]	6
3-c.	Compare overloading and overriding of methods in java using proper examples. [CO2]	6
3-d.	What is the difference between java method and java constructor? [CO2]	6
3.e.	Explain the difference between arithmetic exception and null pointer exception in java with the help of suitable example ?[CO3]	6
3.f.	write a program for @Deprecated Annotation.[CO4]	6
3.g.	Construct HashMap and TreeMap Context. [CO5]	6
	SECTION C	50
4. Answ	er any <u>one</u> of the following:-	
4-a.	Explain continue statement with its syntax and an example. [CO1]	10
4-b.	Discuss different levels of access specifiers available in JAVA. [CO1]	10

5. Answer any one of the following:-5-a. Explain constructor. How do we invoke constructor in JAVA? Support your 10 answer with example. [CO2] 5-b. Write a JAVA program to implement a lambda expression (block) which 10 computes and returns the factorial of an integer number. [CO2] 6. Answer any one of the following:-Write a JAVA application that uses string method to compare two strings input 6-a. 10 by the user and displays output whether the first string is less than equal or greater than the second.[CO3] 6-b. Discuss any 5 methods of String class?[CO3] 10 7. Answer any one of the following:-7-a. Explain the concept of Daemon thread. Can we transform the user thread into 10 daemon thread if that is started? Explain with with the help of example.[CO4] 7-b. Explain the concept of Thread interrupts. Give suitable example in 10 support.[CO4] 8. Answer any one of the following:-Explain GUI with real life example. [CO5] 10 8-a. 8-b. What is a layout manager and what are different types of layout managers 10 available in Java Swing? [CO5] 022-2