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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

MCA

SEM: II - CARRY OVER THEORY EXAMINATION - JUNE 2023

Subject: Object Oriented Programming with JAVA

Time: 3 Hours

Max. Marks: 100

General Instructions:**IMP:** Verify that you have received the question paper with the correct course, code, branch etc.**1.** This Question paper comprises of **three Sections -A, B, & C.** It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.**2.** Maximum marks for each question are indicated on right -hand side of each question.**3.** Illustrate your answers with neat sketches wherever necessary.**4.** Assume suitable data if necessary.**5.** Preferably, write the answers in sequential order.**6.** No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.**SECTION A****20****1. Attempt all parts:-**

- 1-a. Which of these jump statements can skip processing the remainder of the code in its body for a particular iteration? (CO1) 1
- (a) break
 - (b) return
 - (c) exit
 - (d) continue
- 1-b. The main difference between a WHILE and a DO-WHILE loop in Java is: (CO1) 1
- (a) WHILE loop executes the statements inside of it at least once even if the condition is false.
 - (b) DO-WHILE loop executes the statements inside of it at least once even if the condition is false.
 - (c) WHILE loop is fast.
 - (d) DO-WHILE loop is fast.
- 1-c. Select the following which shows the correct constructor. (CO2) 1
- (a) () class_name

- (b) [] class_name
(c) class_name ()
(d) ~ class_name ()
- 1-d. A Static method of an Interface should be accessed with ____ and a DOT operator. (CO2) 1
(a) Class Name
(b) Interface Name
(c) An object of a concrete class
(d) None of the above
- 1-e. Which of these keywords is used by the calling function to guard against the exception that is thrown by called function? (CO3) 1
(a) try
(b) throw
(c) throws
(d) catch
- 1-f. Packages that are inside another package are the ____ (CO3) 1
(a) packages
(b) nested packages
(c) util subpackages
(d) subpackages
- 1-g. Which of these is used to read a string from the input stream? (CO4) 1
(a) get()
(b) getLine()
(c) read()
(d) readLine()
- 1-h. Which of these class is not a member class of java.io package? (CO4) 1
(a) File
(b) StringReader
(c) Writer
(d) String
- 1-i. Which object can be constructed to show any number of choices in the visible window? (CO5) 1
(a) Labels

- (b) Choice
- (c) List
- (d) Checkbox

1-j.	Which of these events is generated when a button is pressed? (CO5)	1
	(a) ActionEvent	
	(b) KeyEvent	
	(c) WindowEvent	
	(d) AdjustmentEvent	

2. Attempt all parts:-

2.a.	Describe OOP Paradigm. (CO1)	2
2.b.	Explain Lambda Expression in Java. (CO2)	2
2.c.	Define Java package with example. (CO3)	2
2.d.	Define deadlock. (CO4)	2
2.e.	Define HashMap in java? (CO5)	2

SECTION B

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3. Answer any five of the following:-

3-a.	Explain data input technique in a program using the Scanner class. (CO1)	6
3-b.	Define Java Ternary operator and conditional operator with example. (CO1)	6
3-c.	Differentiate between constructors & user defined method. (CO2)	6
3-d.	Explain array and its different types. (CO2)	6
3.e.	How to send the class file to another directory or drive? (CO3)	6
3.f.	Explain context switching. (CO4)	6
3.g.	Explain Java Generic programming? (CO5)	6

SECTION C

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4. Answer any one of the following:-

4-a.	Discuss various data types in Java. (CO1)	10
4-b.	Describe different types of Java applications & Java Editions. (CO1)	10

5. Answer any one of the following:-

5-a.	How a constructor is invoked in Java? Also explain different types of constructors in Java. (CO2)	10
5-b.	Write a Program in Java to implement an abstract method declared in abstract class. (CO2)	10

6. Answer any one of the following:-

- 6-a. Differentiate between the working of try-catch block and try-catch-finally block. 10
(CO3)
- 6-b. Write a program in Java to replace lower-case characters with upper-case and vice versa. (CO3) 10

7. Answer any one of the following:-

- 7-a. Explain annotations with types. (CO4) 10
- 7-b. Explain briefly Console class with example. (CO4) 10

8. Answer any one of the following:-

- 8-a. Describe JButton and its addActionListener() method with example. (CO5) 10
- 8-b. Write a Program to create an ArrayList in java. (CO5) 10