HT NO: | 7 R | |

CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B. Tech. III Semester Supply End Examinations, July/August-2023 OOPS Through Java

Common to CSE, IT, CSM, CSD, CSG, AIML

Time: 3 Hours

Max. Marks: 70

Note

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

PART-A

 $10 \times 02 = 20 \text{ Marks}$

			Marks	CO	BL
1.	a	List and describe different types of operators?	2	CO1	L1
	Ъ	Distinguish between Procedural language and OOPs?	2	CO1	L2
	С	Differentiate in between Interfaces vs Abstract classes.	2	CO2	L2
	d	List various steps for creating and importing packages.	2	CO2	L1
	е	Define polymorphism?	2	CO3	L1
	f	List types of inheritances in java?	2	CO3	<u>L</u> 1
	g	How threads are synchronized?	2	CO4	L1.
	h	Define the wait() and notify() methods in Inter-Thread communication	2	CO4	Lİ
				-	
	i	List Layout manager types	2	CO5	Ll
	j	Explain AWT class hierarchy?	2	CO5	L2

PART-B

 $5 \times 10 = 50 \text{ Marks}$

 a What do you mean Type-casting? Explain automatic type conversion with suitable example. 	5	CO1	L2
b Define variable? Discuss the scope and life time of variable?	5	CO1	L2
OR 3 a Write a Program to create Palindrome numbers	5 .	CO1	L3
b Explain briefly about String class and discuss various methods	5	CO1	L2

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in String class with an example.

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4	a	Does Java Support multiple inheritance? Justify your answer with an example	5	CO2	L3
	b	Explain the uses of inner classes and local inner classes with examples	5	CO2	L2
		OR			
5	a	Explain the usage of abstract classes and methods with example programs.	5	CO2	L3
	b	What is method overriding? When its occurs? Demonstrate with a Java program.	5	CO2	L3
6	a	Discuss the fundamentals of exception handling.	5	CO3	L2
	b	Define a thread. Explain the two ways of creating threads.	5	CO3	L2
		OR			
7	a	Illustrate unchecked exceptions defined in java.lang with their meaning	5	CO3	L3
	b	Write a program to demonstrate creation of multiple threads.	55	CO3	L3
8	a	What is hash table? Explain with an example.	5	CO4	L2
	b	Explain in detail about Collection Classes.	5	CO4	L2
		OR			
9	a	Discuss in detail about Random class with an example.	5	CO4	L3
	b	Explain in details about binary input/output file operations with examples.	5	CO4	L2
10	a	Explain in brief about Events, Event sources and Event classes.	5	CO5	BL2
	Ь	Develop an applet that receives an integer in one text field and computes its factorial value and returns it in another text field, when the button named "compute" is clicked	5	CO5	BL4
		OR			
11	a	Develop a program that demonstrates an icon based JButton	5	CO5	BL4
	b	Demonstrate the mouse related events with java program	5	CO5	BL4

CO : Course Outcomes

BL : Bloom's Taxonomy Levels L 1: Remembering L 2: Understanding

L 3: Applying L 4: Analysing

L 5: Evaluating L 6: Creating

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UGC AUTONOMOUS

B. Tech. IV Semester Supply End Examinations, July/August-2023 Java Programming Common to CSE & IT

Time: 3 Hours

Max. Marks: 70

Note

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

PART-A

 $10 \times 02 = 20 \text{ Marks}$

		Marks	CO	BL
1. a	List the String Handling Methods in Java.	2	CO1	L1
	List the Data Types in Java	2	CO1	L1
c	What is CLASSPATH in Java?	2	CO2	L1
d l	Define Auto boxing.	2	CO2	L1
e l	List Different Types of Exceptions in Java	2	CO3	L1
f 1	Explain synchronizing threads in Java.	2	CO3	L1
_	What are Map Interfaces and Classes in Java?	2	CO4	L1
	Differentiate Between Collections Framework and Collections Classes.	2	CO4	L1
i]	List different types of Swing controls.	2	CO5	L1
j]	Define Delegation Event Model.	2	CO5	L1

PART-B

5 X 10 = 50 Marks

CO BL

Marks

2.	A pet store needs a program to manage their inventory of different types of pets, including dogs, cats, and birds. The pet store wants to keep track of the pet's name, breed, and age, as well as any unique information specific to each type of pet. The store would like to be able to perform certain	10	CO1	L3	
		actions on the pets, such as feeding, playing, and making them speak. Use Polymorphism and Write a Java Program to Solve the Problem Statement.			
		OR			
3	a	Explain Method Overriding with an Example.	5	CO1	L2

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	b	Explain the Stri	ng Handling Methods	s with Suit	able Example.	5	COI	L2
	4 a	behavior of diff have an interf properties and a accelerate(). The program sh	program that uses in ferent types of vehicle ace called Vehicle methods of a vehicle ould also have two conterface: a Car class	les. The p that defi , such as	rogram should nes the basic getSpeed() and nplementations	10	602	12
		Car class should car honk, and the ringBell() that n	I have a method called the Bicycle class show makes the bicycle ring Driver class that use	interfaces cles. The partial that defined that defined that defined the such as concrete in and a Bioled honk() and have a go its bell. The polymore the honk () or and Its Important that the output of the hone	that makes the method called	10	CO2	L3
			t and demonstrate the methods, as well as to licable.	the honk()				
	5 a	Explain Differe in Java	nt File Operations an		ey are Handled	5	CO2	L2
	b		ation with an Examp	le.		. 5	CO2	L2
	6 a		on Handling in Java			5	CO3	L2
	b		a thread model and eads in a Java applica	tion	used to create	5	CO3	L2
	7 a	thread should pathread should pathreads should	oring that creates rint the numbers from print the numbers from run concurrently, ar f the two threads are	n 1 to 10, com 11 to nd the ou	and the second 20. The two tput should be	10	CO3	L3
	8 a	Describe the disuses.	fferent Collection Int	erfaces in	Java and their	5	CO4	L2
	b		e of Map Interfaces values in a collection	n.	ses in Java for	5	CO4	L2
•	9 a	in Java and the Collection.	cept of accessing a Ceprocess of using a	an Iterator	to traverse a	5	CO4	L2
	b		of the Legacy Class ary, Hashtable, Prope			5	CO4	L2
1	10 a		ous Layout Manager Layout, Grid Layout			5	CO5	L2
	b	Explain the Life	Cycle of Applet.			5	CO5	L2
]	11 a	advantages of G	roduction and limita UI programming with	h Swing in	ı Java.	5	CO5	L2
	b		cess of creating a Si different components		ng Application	5	CO5	L2