CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B. Tech. III Semester Regular/Supply End Examinations, Feb-2023 OOPS Through Java

Common to CSE, IT, CSM, CSD, CSG, AIML
Max. Marks: 70

Time: 3 Hours

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	What are the advantages of using Object Oriented	02	CO1	L1
	b	programming Recall method overriding	02	CO1	L1
	С	Write the syntax for Defining a Package	02	CO2	L1
	d	Classify different types of streams and their use in java	02	CO2	L2
	e	Memorize the difference between throw and throws in Exception handling?	02	CO3	L2
	f	What are the advantages of multithreading?	02	CO3	L2
	g h	What is the difference between array and vector? Mention the Primary use of Comparators?	02 02	CO4 CO4	L2 L2
	i	What are the containers available in swing? Compare Applets with application programs	02 02	CO5	L1 L2

PART-B

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

			Marks	CO	BL
6		Explain the features of object-oriented programming in	05	CO1	L2
<i>[</i> 2.	a b	detail. Discuss in detail about objects and explain how they are created from Class? Explain the dynamic initialization of	05	CO1	L1
2	а	objects using constructors. OR What is the method? Explain method overloading with the	05	CO1	L2
3	а		05	CO1	L3
	b	Write a Java program to add a set of numbers passed from the command line.			

			-,(:	1 Prof 110
Subject Code:	20CS303PC SET-I HT NO:	7 R		
4 /a	What is a package? Explain the process of importing and	05	CO2	L2 .
b	accessing package with example program. How to implement interfaces? Illustrate Nested interfaces clear examples? OR	05	CO2	L3
5 a	Analyze Reading console Input and Writing Console Output with an example?	05	CO2	L4
b	Discuss about various Random access file operations?	05	CO2	L2
6 a	With a suitable Java program explain user-defined exception handling.	05	CO3	L3
Ь	What is meant by re-throwing exception? Discuss a suitable scenario for this OR	05	CO3	L3
7/ a	What is Multithreading? What are the ways to create multiple threads in Java?	05	CO3	L2
b	Write a program to create three threads in your program and context switch among the threads using sleep functions.	05	CO3	L3
28 a	What is the need of String Tokenizer? Discuss the methods of Stack class.	05	CO4	L2
b	Differentiate between ArrayList and Vector? OR	05	CO4	L2
9 a	Discuss about the following: (i) Date (ii) Calendar (iii) Random (iv) Formatter	10	CO4	L2
10 a	What is the significance of layout managers? Discuss briefly various layout managers.	05	CO5	L2
b	Write an Applet to draw a smiley picture accept user name as a parameter and display welcome message. OR	05	CO5	L3
11 a b	With a Neat diagram, Explain MVC architecture Write an applet program to handle all mouse events	05 05	CO5 CO5	L2 L3

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

CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B. Tech. III Semester Regular/Supply End Examinations, Feb-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
X. a What are the advantages of using Object Oriented	02	CO1	L1
programming b Recall method overriding	02	CO1	L1
Write the syntax for Defining a Package Classify different types of streams and their use in java	02 02	CO2 CO2	L1 L2
Memorize the difference between throw and throws in	02	CO3	L2
Exception handling? What are the advantages of multithreading?	02	CO3	L2
g What is the difference between array and vector? Mention the Primary use of Comparators?	02 02	CO4 CO4	L2 L2
What are the containers available in swing? Compare Applets with application programs	02 02	CO5	L1 L2

PART-B

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

Marks

CO

BL

2	я	Explain the features of object-oriented programming in	05	CO1	L2
۷.	b	detail. Discuss in detail about objects and explain how they are created from Class? Explain the dynamic initialization of	05	CO1	L1
2	0	objects using constructors. OR What is the method? Explain method overloading with the	05	CO1	L2
3	a b	relevant java program Write a Java program to add a set of numbers passed from the	05	CO1	L3
	U	command line.			

Subject Code: 20CS303PC			SET-I	HT NO:	7 R		
. 4	a	What is a package	e? Explain the process of im	porting and	05	CO2	L2
	b	accessing package	e with example program. nt interfaces? Illustrate Nest		05	CO2	L3
		•	OR				
5	a	Analyze Reading with an example?	console Input and Writing	Console Output	05	CO2	L4
,	b	-	rious Random access file op	erations?	05	CO2	L2
6	a	With a suitable Jahandling.	wa program explain user-de	fined exception	05	CO3	Ľ3
	b	What is meant by scenario for this	re-throwing exception? Dis	seuss a suitable	05	CO3	L3
/	/		OR				
K	a	What is Multithre threads in Java?	eading? What are the ways to	o create multiple	05	CO3	L2
	b	Write a program context switch an	to create three threads in you nong the threads using sleep	ur program and functions.	05	CO3	L3
8	a	What is the need of Stack class.	of String Tokenizer? Discus	ss the methods	05	CO4	L2
	b		veen ArrayList and Vector? OR		05	CO4	L2
9	a	Discuss about the (i) Date (ii) Caler		atter	10	CO4	L2
10	a		ficance of layout managers?	Discuss briefly	05	CO5	L2
	b		anagers. to draw a smiley picture acc lisplay welcome message. OR	ept user name as	05	CO5	L3 .
11	c	With a Mont ding	ram, Explain MVC architec	hire	05	CO5	L2
11	a b	Write an applet p	orogram to handle all mouse	events	05	CO5	L3
со		: 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

SET-II

7 R	

CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B.Tech - III Semester, Supply Examinations, July-2022

OOPS Through Java [20CS303PC] (Common to CSE, CSD, CSM & IT)

Time: 3 Hours

Max. Marks: 70

Answer Any Five Questions
All Questions Carry Equal Marks

5 X 14 = 70 Marks

1. a. Explain the concept of OOP? List the features of OOP and explain in detail? [7M] b. Develop a program to convert the given temperature in Fahrenheit to Celsius using the following conversion formula C = (F - 32)/1.8 And display the values in a tabular form. [7**M**] 2. a. Demonstrate with an example how to implement multiple Inheritance in java? [7M] b. What is polymorphism? Differentiate between method overloading and method [7**M**] overriding with an example. 3. a. How to create a package? Explain about the access protection in packages? [7**M**] b. Compare Byte Stream Classes and Character Stream Classes with suitable examples? [7**M**] 4. a. How to design and implement an interface in Java? Explain with an example? [7M] b. Explain the concept of Random-access file operations in detail? [7M] 5. a. Develop a program to create four threads using Runnable interface. [7**M**] b. Develop a java program that illustrates the application of multiple catch statements. [7M][7M] 6. a. Explain exception handling in detail with suitable example? b. How multithreading in single processor system is different from multithreading [7M]in multiprocessor system. Explain? [7**M**] 7. a. Discuss the concept of the Legacy Classes in detail? b. Explain the purpose of String Tokenizer with an example? [7M] [5M] 8. a. In what way JList differ from JComboBox? [9M] b. What are the various components of Swing? Explain?

CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B.Tech - III Semester, Regular End Examinations, Feb-2022

OOPS Through Java[20CS303PC] (Common to CSE, CSD, CSM & IT)

Time: 3 Hours

Max. Marks: 70

Answer Any Five Questions All Questions carry Equal Marks

5 X14 = 70 Marks

1. a Explain the usage of super keyword in Java.	[7M]
b Write a Java program to create and access a two Dimensional Array.	[7M]
2. a What is a constructor? Explain.	[5M]
b Write a Java program to illustrate the parameterized constructor.	[9 M]
3. a Write a Java program to copy contents of one file to another.	[7M]
b. Explain the access modifiers in Java.	[7M]
4. Describe the process of importing and accessing a package with suitable	e examples.
	[14M]
5. a. What is finally block? Explain.	[5M]
b. Write a Java program to demonstrate Exceptional handling using finally	block.[9M]
6. a. Briefly explain thread priorities.	[5M]
b. Write a Java program to illustrate thread priorities.	[9M]
	·
7. a. Write a Java program to demonstrate LinkedList.	[8M]
b. What are the similarities and differences between ArrayLIst and Vector	? Explain.
	[6M]
8. a. Explain the MVC architecture.	[7M]
b. What are the various components of Swing? Explain.	[7M]

Time: 3 Hours

CMR TECHNICAL CAMPUS

UGC AUTONOMOUS

B. Tech. III Semester Supply End Examinations, February-2024 OOPS Through Java — Common to CSE, IT, CSM, CSD, CSG, AIML

Common to CSE, 11, CSM, CSD, CSG, AIML

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 X 02 = 20 Marks

Max. Marks: 70

			Marks	CO	BL
1.	a b	Differentiate between class and object Write the Syntax of defining Class in Java?	02 02	CO1 CO1	L2 L1
	c d	How to implement interfaces in Java? Recall Various types of operations that are performed on Files?	02 02	CO2 CO2	L3 L1
	e f	List any three built-in exceptions in Java How does Java support inter thread communication?	02 02	CO3 CO3	L1 L2
	g h	What are the methods defined by Vector? Write the Major uses of Priority Queue?	02 02	CO4 CO4	L1 L2
	i j	What are the merits of swing components over AWT? Give the hierarchy for swing components	02 02	CO5 CO5	L2 L1
		PART- B	5 X 10 =	50 Marks	
			Marks	CO	BL
2.	a	What are the drawbacks of procedural languages? Explain the need of object oriented programming with suitable	05	CO1	L2
	b	program Create a class named Person. It should have data members: name, age, mobile number and place member functions: getData(), displayData(). Create another class named Employee to add professional details to Person class and display the data.	05	CO1	L3
3	a b	OR What is inheritance? Classify different types of inheritance? Add a new method in the base class of Shapes.java that prints a message, but don't override it in the derived classes.	05 05	CO1 CO1	L4 L3
		Explain what happens			

Subject	Code:	20CS303PC SET-II HT NO:	7 R		-
4	a	what is package? Explain how to create user defined package in java?	05	CO2	Ľ3
	b	What is an interface? List the rules to create an interface in java with examples?	05	CO2	L2
		OR		~~*	16
5	a	Classify different types of Streams and Explain about them?	05	CO2	L2
	b	How to implement Serialization & Enumerations in Java?	05	CO2	L3
6	a	Give the difference between checked and unchecked exceptions?	05	CO3	L2
	b	Write a program to illustrate the use of multiple catch blocks for a try block	05	CO3	L2
		OR			
7	a	Does Java support thread priorities? Justify your answer with suitable discussion	05	CO3	L3
	b	Write a java program to create two threads and execute simultaneously.	05	CO3	L3
8	a	What is a vector? How does it differ from array, list?	05	CO4	L2
Ü	b	Write a program to count number of words in a given sentence	05	CO4	Ŀ3
		OR			
9	a	Discuss about Hash table? Mention its Properties.	05	CO4	L2
,	b	Write a Program for Accessing a Collection via an Iterator.	05	CO4	L3
	U	write a riogram for Accessing a concention via an iterator.	03	COT	LS
10	a	Is Applet more secure than application program? Justify your answer.	05	CO5	L3
	b	Design a user interface to collect data from the student for admission application using swing components. OR	05	CO5	L3
11	a	Explain the life cycle of an applet.	05	CO ₅	L2
	b	Write an applet to display the mouse cursor position in that applet window	05	CO5	L3 .
со	:	Course Outcomes			
BL	:	Bloom's Taxonomy Levels L 1 : Remembering L 2 : U	Inderstanding	3	

L 3 : Applying L 4 : Analysing

L 5 : Evaluating L 6 : Creating
