

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

# INTERNAL EXAM QUESTION PAPER AND ANSWER KEY

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING

**E TECHNOLOGY** Even containing a static method that check whether a number

Academic Year / Semester 2022-23 / S3

Series Test	1	Academic Year / Semester	2022-23 / S3
Subject name with code	CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch of the second se	CSE
Date of Exam	08/11/2022 sub-clas space of 60.68	Duration	120 mins
Starting time	9:30AM	Max. Marks	50 mb

#### <MAX MARKS : 15> PART A Q.NoMarks CO Level Why the "main" method in Java is qualifies as public, static, ad 3 ou I 1 1 void? What is a class diagram? Sketch an UML class diagram for 3010 I 1 2 Online Movie Ticket Booking System. How Array and Vector Class differ from each other in 3 II 3 Java? Justify your answer. List out the different datatypes in Java. Give example for 3 II 1 4 each. Define Package and Interface in java. 3 5 III

#### PART B Section <MAX MARKS: 35>

	a	Show an UML Activity diagram for Food Ordering Systems which shows flows between the activity Order,	ane s	adru	2
6	b	Delivery, Food Item, Category, Payment. Outline an automated fire alarm system and bring out the difference between function oriented software design approaches and object oriented software design approach.	8	Ι	2

### OR

	a	Summarize the buzzwords of Java that defines the Java programming language.	5	I	2
7	b	Demonstrate an interaction diagram for an order management system and differentiate the two types of interaction diagram based on it.	9	Ι	2

8	Ex	tend the use of Looping statements in Java with examples. 14 II 2
		OR
0	9	Interpret the role of 'super and 'final' keyword in context 5

with inheritance in Java with appropriate example.

*****	b	Explain in detail various operators in java with appropriate examples.	9	···II···	2
av	GAR	TE MARYANA GURU COLLEGE OF ENGINEERIN			
10	Even is pace not		7	III	2
	2-23/	GBJECT ORIENTE NO Academic Vear Semester 202	CST 205	SUBRE	iubject r
	Ela	borate the visibility of all Access Specifiers available in	ROGR	9	nith cod
11		a with respect to: same class, same package sub-class,	08/17/80	III	2
11		ne package non sub-class, different package sub-class, ferent package non sub-class.	9:30AM		Starting

- CO I: To introduce basic concepts of object oriented design techniques and to understand the basis of java language.
- **CO II:**To get thorough knowledge of java languages and to utilize the features of java like datatypes, operators, control statements etc and how to use the object oriented concepts -classes, objects, constructors, data hiding, inheritance and polymorphism.

CO III: To understand the utilization of built in packages & interfaces and to illustrate how robust programs can be written in Java using exception handling mechanism, Input /Output Streams and Files in Java to develop programs

### LEVEL - Bloom's Taxonomy Level

Level 1: REMEMBERING Level 2: UNDERSTANDING Delivery Food frem Category, Payment

Outline an automated fire alarm system and bring out 8 to difference between function oriented software design poroachas and object oriented software design

	OR
	a Summarize the buzzwords of Java that defines the Java PLACTORING PLACTORING PO BOBLICO URING WAYER AND A DESCRIPTION OF A D
	FO EDELLOS UNDO ANTIMEHOME AND ANALYANAETACTIONdiagramfor an orderNURAYYAR, YEOLONHOET & DUINEDATING AND

	aples. > 14	Extend the use of Looping statements in Java with exam-	
	V.	7 80	
	Mext 5	a <b>Interpret</b> the role of super and 'final' keyword in c with inheritance in Java with appropriate example	

### Name: .....

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## SREE NARAYANA GURU COLLEGE OF ENGINEERING

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Answer Key /Valuation Scheme

Series 1	Test	1(Scheme)	Academic Year / Se	mester	2022-23	3/\$3	
Subject with co		Branch		t- manya	CSE		
Date of	Exam	6606/11/2	Duration	he user of	120 mi	ns	
Starting	g time	9:30 am	Max. Marks		50	×.	
		PART A	ily a ollor kitt (f. flildi -	<max< td=""><td>MAR</td><td>KS : 15&gt;</td></max<>	MAR	KS : 15>	
Q.No		OR		Marks	CO	Level	
1	Why the "main" method in Java is qualifies as public, static, void.			3	I	1	
2	Explanation for public, static, void keywords – 1 mark eachWhat is a class diagram? Sketch an UML class diagram for Online Movie Ticket Booking System.Class Diagram-1mark, Class diagram for banking system-2 marks.			3 11 21617(0) 161 - 210		1	
3	Hov Java	v Array and Vector Class differ from a? Justify your answer.	om each other in	3		1	
4		<b>3 points-3 marks.</b> out the different datatypes in Java. 1.	Give example for	3	10-20 10-11 10-11 10	1	
	List	ing -1 mark, Example for each datatypes	-2 marks.	a de la comercia de la	and an	9	
5		ine Package and Interface in java.	an a suite de la company and an	3	III	0 1	
	Defi	nition -1.5 marks each					
		PART ]	5 AR 56 30 31	<max< td=""><td>MARK</td><td>S: 35&gt;</td></max<>	MARK	S: 35>	
	a	Show an UML Activity diagram for Systems which shows flows between Delivery, Food Item, Category, Paymer	the activity Order, nt.	6 6 6 6	me <b>l</b> poc fferent ( thie of )	22 2	
6	b	Activities -2.5 marks, Activity Diagram Outline an automated fire alarm syste the difference between function oriented approaches and object oriented approach	em and bring out ed software design	J.S.	I J.	Strates (	

Figure- 2 marks, Explanation and Difference-6 marks.

		OR OR			
<u>(1</u> )"	a	Summarize the buzzwords of Java that defines the Java programming language. Any 5 java buzzwords in detail -5 marks.	5	Ι	2
7	b	Demonstrate an interaction diagram for an order management system and differentiate the two types of interaction diagram based on it.	9	I	2
21	2.23	Diagram -3 marks, types-1mark, Explanation-5marks.	94. (2.) 91. (2.) 93. (2.)		t sight
8	3 L	tend the use of Looping statements in Java with examples. oop statements with syntax/flowchart-6 marks, Example for h-8 marks	14	II	2
San A	T é	OR			ON
9	a	Interpret the role of 'super and 'final' keyword in context with inheritance in Java with appropriate example. Explanation for each keyword -2 marks, Example for each -3 marks.	5	Wi <b>II</b> G vord. Explant With	2
	b	Explain in detail various operators in java with appropriate examples. Listing – 1 mark, Explanation -4 marks, Example-4marks.	9	Dr∏r⊘ Linse 1 Racks	2
		Vertur Class differ from each other at	90 ( 7 <b>8</b> 1) (14		
10	Eve is pac not	estrate a Java package named 'even package', with a class en containing a static method that check whether a number even or not, and returns that information. Import this eskage in another class and use to check a number is even or characteristic characteristic content of the state of the s	un <sup>C</sup> anai Itil <b>7</b> adı 1 attarn 1 5 ogsába	iny 3 pa ist <b>III</b> nch, leting -	2
		OR	an 8.1- <b>n</b>	ofinitio	
<8  2 11	Jav san	borate the visibility of all Access Specifiers available in a with respect to: same class, same package sub-class, ne package non sub-class, different package sub-class, ferent package non sub-class.	<b>7</b> 10 <b>7</b> 11 2 2 11	i System Rystem Rock	2
	Tal	ble of Access Specifiers-7 marks.	C. C. Mark	5. A.	

**CO I:** To introduce basic concepts of object oriented design techniques and to understand the basis of java language.

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- **CO II:**To get thorough knowledge of java languages and to utilize the features of java like datatypes, operators, control statements etc and how to use the object oriented concepts -classes, objects, constructors, data hiding, inheritance and polymorphism.
- **CO III:**To understand the utilization of built in packages & interfaces and to illustrate how robust programs can be written in Java using exception handling mechanism, Input /Output Streams and Files in Java to develop programs

**LEVEL - Bloom's Taxonomy Level** Level 1: REMEMBERING Level 2: UNDERSTANDING

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR Name: .....

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING

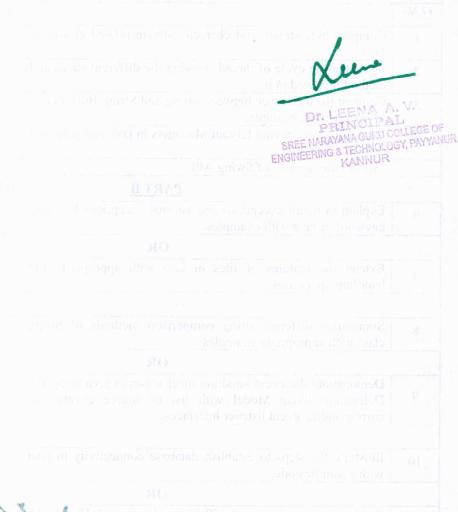
LTECHNOLOGY,

Series 1		<b>2</b> 00000 DEE EROLUSTIQUE DURAN 1919	Academic Year / Se	mester	2022-23	/ \$3
Subject name with code		ne CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA Branch	E	CSE		
Date of	Exam	13/12/2022	Duration		120 min	S
Starting	g time	9:30AM	Max. Marks	(Paha	50	24.1
		PART A	<u>\</u>	<max< td=""><td>MARK</td><td>S : 15</td></max<>	MARK	S : 15
Q.No				Marks	CO	Leve
1	Compare byte stream and character stream related classes i Java.				III	2
2	Show the life cycle of thread showing the different states and method involved in it.			3	IV	2
3	Contrast the difference between String and String Buffer class in Java with an example.			3	IV	2
4	Name any three Swing Layout Managers in java and point out their uses in GUI.			3	V	1
5	List o	ut the features of Swing API.		3	V	1
		PART		<max< td=""><td>MARK</td><td>S: 35&gt;</td></max<>	MARK	S: 35>
6	Explain in detail exceptions and various exceptions handling keyword in Java with examples.			7	III	2
		OR				
7		d the features of files in java wi ing operations.	th appropriate file	7	III	2
8		narize different string comparison with appropriate examples.	methods of String	14	IV	2
		OR				
. 9	Deleg	nstrate the event handling mechanism ation Event Model with list of ponding event listener interfaces.		14	IV	2
	111			1.4		
10		ate the steps to establish database c sample code.	connectivity in java	14	V	2
		OR		1		
11		ne a java program to illustrate the and JLabel.	use of JTextField,	14	V	2

- **CO III:** To understand the utilization of built in packages & interfaces and to illustrate how robust programs can be written in Java using exception handling mechanism, Input / Output Streams and Files in Java to develop programs.
- **CO IV:** To provide basic exposure for the application of programs in java using string handling mechanism, multithreading, collection framework and event handling mechanisms.
- CO V: To impart the techniques creating GUI based applications and database connectivity.

# **LEVEL - Bloom's Taxonomy Level** Level 1: REMEMBERING

Level 2: UNDERSTANDING



Name: ..... Roll No:- .....

### SREE NARAYANA GURU COLLEGE OF ENGINEERING



# E TECHNOLOGY, P

## Valuation Scheme/Answer Key

Series Test	2(Scheme)	Academic Year / Semester	2022-23 / S3
Subject name with code	CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch	CSE
Date of Exam	13/12/2022	Duration	120 mins
Starting time	9:30AM	Max. Marks	50

	PART A	<max< th=""><th>MARK</th><th>KS : 15</th></max<>	MARK	KS : 15
Q.No	nd the of some or influence price of an arrest and to Man	Marks	CO	Level
1	Compare byte stream and character stream related classes in Java.	3	III	2
	Comparison 3 key points-3 marks.		01273	
	Show the life cycle of thread showing the different states and	3	IV	2
2	method involved in it.	the course	- 63° - 57	610 -
VIIVO	Diagram-1.5marks, Explanation-1.5 marks	Ser Condice		
2	Contrast the difference between String and String Buffer class	3	IV	2
3	in Java with an example.	magl	1.13	
	Comparison 3 key points-3 marks.	WE MAN	13:11	99 <mark>.1</mark>
4	Name any three Swing Layout Managers in java and point out their uses in GUI.	3	V	895. <mark>1</mark>
	Listing – 1.5 marks, Use-1.5 marks.			
5	List out the features of Swing API.	3	V	1
5	Any 6 Features - 3 marks.			
	PART B	<max n<="" td=""><td>MARK</td><td>S: 35&gt;</td></max>	MARK	S: 35>
	Explain in detail exceptions and various exceptions handling	7	III	2
6	keyword in Java with examples.			
-	Definition-1 mark, Types-1 marks, Keywords & Its examples-5 marks.			
	OR			
	Extend the features of any two file handling operations in java	7	III	2
7	with appropriate examples for each.			
	List out – 1 mark, Explanation – 3 marks each.			
	Summarize different string comparison methods of String	14	IV	2
8	class with appropriate examples.	14	1.4	2
	Methods with Syntax-4 marks. Example -10 marks each.			
	OR			
	Demonstrate the event handling mechanism in java using the	14	IV	2
9	Delegation Event Model with list of source events and			
	corresponding event listener interfaces.	1.	6 1	1

	Definition-1.5 marks, Figure-1.5 marks, Explanation-6 marks, Source of events – 2.5 marks, Event Listener Interface- 2.5marks.		197	
10	Illustrate the steps to establish database connectivity in java with a sample code. Steps – 3 marks, Explanation-5 marks, Sample Code - 6 marks.	14	V	2
23/82	COC harvanick hast satisfuicht. OR	25	12.37 8	STORE P
11	Outline a java program to illustrate the use of JTextField, JFrame and JLabel. Syntax- 2 marks, Logic – 5marks, Program-7 marks	14	V	2

- CO III: To understand the utilization of built in packages & interfaces and to illustrate how robust programs can be written in Java using exception handling mechanism, Input / Output Streams and Files in Java to develop programs.
- CO IV: To provide basic exposure for the application of programs in java using string handling mechanism, multithreading, collection framework and event handling mechanisms.
- CO V: To impart the techniques creating GUI based applications and database connectivity.

# **LEVEL - Bloom's Taxonomy Level**

Level 1: REMEMBERING Level 2: UNDERSTANDING

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Dr. LEENA A.

# Name: .....

Roll No:-



# SREE NARAYANA GURU COLLEGE OF ENGINEERING ... & J TECHNOLOGY,

Series 7	"est	RETEST	Academic Year/Sen	iester	2022-23	3/\$3	
Subject with cod		CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch		CSE		
Date of	Exam	05/01/2023	Duration		120 mi	ns	
Starting	, time	9:30 AM	Max. Marks		50		
		PART A		<max< td=""><td>MARK</td><td>S:15&gt;</td></max<>	MARK	S:15>	
Q.No				Marks	CO	Level	
1		narize the buzzwords of Java that amming language.	defines the Java	3	1	2	
2	Contrast the difference between checked exception and unchecked exception.		3	ш	2		
3		e packages and interfaces.		3	II	1	
4	Name any three Swing Layout Managers in java and point out their uses in GUI.		3	V	1		
5	List o	ut the features of Swing API.		3	V	1	
		PART B		<max< td=""><td>X MAR</td><td>KS:35&gt;</td></max<>	X MAR	KS:35>	
6	differe	e an automated fire alarm system a ence between function oriented aches and object oriented software des	software design	7	I	2	
		OR					
7	which	an UML interaction diagram for Food shows flows between the activity Item, Category, Payment.	•••	7	Ι	2	
8		in in detail exceptions and various ex ord in Java with appropriate java progr		14	III	2	
		OR					
9	Java same	rate the visibility of all Access Spec with respect to: same class, same p package non sub-class, different p ent package non sub-class.	backage sub-class,	14	III	2	
10		ate the steps to establish database co sample code.	onnectivity in java	14	V	2	
		OR					

11	Outline a java program to illustrate the use of JTextField,	14	V	2
	JFrame and JLabel.			

- **CO I:** To introduce basic concepts of object oriented design techniques and to understand the basis of java language.
- CO III: To understand the utilization of built in packages & interfaces and to illustrate how robust programs can be written in Java using exception handling mechanism, Input/ Output Streams and Files in Java to develop programs.
- CO V: To impart the techniques creating GUI based applications and database connectivity.

**LEVEL - Bloom's Taxonomy Level** Level 1:REMEMBERING Level 2: UNDERSTANDING



Roll No:-

### Name: .....



# SREE NARAYANA GURU COLLEGE OF ENGINEERING

& TECHNOLOGY, 

## VALUATION SCHEME/ANSWER KEY

Series Test	RETEST(SCHEME)	Academic Year/Semester	2022-23 / \$3
Subject name with code	CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch	CSE
Date of Exam	05/01/2023	Duration	120 mins
Starting time	9:30AM	Max. Marks	50

	PART A	<max n<="" th=""><th>ARK</th><th>S:15&gt;</th></max>	ARK	S:15>
Q.No		Marks	CO	Leve
1 hard	List out the buzzwords of Java that defines the Java programming language. List out all the buzzwords of java- 3 marks.	3	Ι	2
2	Contrast the difference between checked exception and unchecked exception. Difference – 3 marks.	3	Ш	2
3	Define packages and interfaces. Definition -1.5 marks each.	3	III	1
4	Name any three Swing Layout Managers in java and point out their uses in GUI. Listing – 1.5 marks, Use-1.5 marks.	3	V	1
5	List out the features of Swing API.	3	V	1
	Any 6 Features – 3 marks.			
	PART B	<max< td=""><td>MARI</td><td>KS: 35&gt;</td></max<>	MARI	KS: 35>
6	Interpret an automated fire alarm system and bring out the difference between function oriented software design approaches and object oriented software design approach. Figure- 2 marks, Explanation and Difference-5 marks.	7	Ι	2
	OR		ľ	
7	Show an UML interaction diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, Food Item, Category, Payment. Figure- 2 marks, Explanation and Difference-5 marks.	7	Ι	2
		I		Lan <u>es e e conce</u> nse.
8	Explain in detail exceptions and various exceptions handling keyword in Java with appropriate java programs. Definition-1 mark, Keywords & syntax -5 Its example java programs-8 marks.	14	ш	2
	OR	Y/S	· 6. 8	000
9	Elaborate the visibility of all Access Specifiers available in Java with respect to: same class, same package sub-class,	14	- III.	2

az	same package non sub-class, different package sub-class, different package non sub-class. Definition – 2 marks, Types – 1 mark, Explanation- 4marks, Table of Access Specifiers-7 marks.			enny Sourcy Sources
	V CLEAT WAXA SMORT & ZOTTATELAY		in the	
10	Illustrate the steps to establish database connectivity in java with a sample code.	14	V	2
821	Steps – 3 marks, Explanation-5 marks, Sample Code - 6		125	( and the
	marks.	12 1 (6.)	199000	\$200.00
	OR			20.2 10
11	Outline a java program to illustrate the use of JTextField, JFrame and JLabel.	14	V	2
	Syntax- 2 marks, Logic – 5marks, Program-7 marks.			÷ 2

- **CO I:** To introduce basic concepts of object oriented design techniques and to understand the basis of java language.
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# LEVEL - Bloom's Taxonomy Level

Level 1:REMEMBERING

Level 2: UNDERSTANDING

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shutvan UML advention diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, ood item, Category, Payment

equice 2 marks, Explanation and Difference-5 marks.

Explain in defail exceptions and various exceptions handling [1] keyword in 2000 with appropriate inverprograms.

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PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR