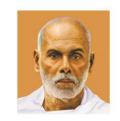


Sree Narayana Guru College of Engineering & Technology



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

INTERNAL EXAM - Q	UESTION PAPER AND	O ANSWER KEY
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Name:	Roll No:-



SREE NARAYANA GURU COLLEGE OF ENGINEERING

Illustrated TECHNOLOGY, POOLOGIA Plass Even containing a static method that check whether a number

Series Test	1 00	Academic Year / Semester	2022-23 / S3
Subject name with code	CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch to Addictive only	CSE
Date of Exam	same package sub-clas \$200/11/80	Duration	120 mins
Starting time	9:30AM	Max. Marks	50

		PART A	<max< th=""><th>MARE</th><th>KS: 15></th></max<>	MARE	KS: 15>
Q.No		(0)	Marks	CO	Level
1 _{bris}	Wh	y the "main" method in Java is qualifies as public, static, d?	duc 8 bas s of java	o Anne he basi	:110
2 _{exit}	1 1238 521	at is a class diagram? Sketch an UML class diagram for line Movie Ticket Booking System.	oro E gh l s, operate	o g p f.t atatype	1:11 <u>1</u> 0 0
3		w Array and Vector Class differ from each other in a? Justify your answer.	-cli & ses crstand th	on H pts Fo und	0 1 :HI O
4 juq	List	t out the different datatypes in Java. Give example for h.	rogiems Streams	ob le t p Output	1
5	Def	fine Package and Interface in java.	3	III	1
		nomy Level BTRA9	<max n<="" td=""><td>MARK</td><td>S: 35></td></max>	MARK	S: 35>
	a	Show an UML Activity diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, Food Item, Category, Payment.	SSTAND	UNDE	2
6	b	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	I	2
8	Ext	end the use of Looping statements in Java with examples.	14	II	2
	LAU		14		
-		OR	- d:	TI	-
9	a	Interpret the role of 'super and 'final' keyword in context with inheritance in Java with appropriate example.	MARAL	ECENANU	2

- 3 + 5 4	b Explain in detail various operators in java with appropriate examples.	9	···III	2
	THE TAKE TAKE GURU COLLEGE OF ENGINEERING AT	11		
10	Illustrate a Java package named 'even package', with a class Even containing a static method that check whether a number is even or not, and returns that information. Import this package in another class and use to check a number is even or not.	7	III	2
	OBJECT ORIENTE RO Academic Year Semester 2022-23	CST 205	tance	Yubject i
11	Elaborate the visibility of all Access Specifiers available in Java with respect to: same class, same package sub-class,		Ш	2
	same package non sub-class, different package sub-class, different package non sub-class.	9:30AM	time	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 OUTPUT STATE ACTIVITY OF THE METAL STATE OF THE

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a .V.A ANALY the buzzwords of Java that defines the Java PLA ANALY TO LIA TO LI

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with inheritance in Java with appropriate example

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EXECUTION STATEMENT OF STATEMEN

Answer Key /Valuation Scheme

Series Test	1(Scheme)	Academic Year / Semester	2022-23 / S3
Subject name with code	CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch	CSE
Date of Exam	8/11/2022	Duration 200 300 300	120 mins
Starting time	9:30 am	Max. Marks	50

	PART A	<max< th=""><th>MARK</th><th>KS: 15></th></max<>	MARK	KS: 15>
Q.No	51O	Marks	CO	Level
1	Why the "main" method in Java is qualifies as public, static, void. Explanation for public, static, void keywords – 1 mark each	an 3 cro	I IIII	1
2	What 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.	The state of the s	EXI Mas	1
3	How Array and Vector Class differ from each other in Java? Justify your answer. Any 3 points-3 marks.	3 (000) 6 5 (000) 50	II Nostrati Even co	1
4	List out the different datatypes in Java. Give example for each. Listing -1 mark, Example for each datatypes-2 marks.	3 _{0 (11}	ac ili go Di	10
5	Define Package and Interface in java. Definition -1.5 marks each	3	IIIss	1
	at sidulines at PART B	<max n<="" td=""><td>MARKS</td><td>S: 35></td></max>	MARKS	S: 35>
2	a Show an UML Activity diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, Food Item, Category, Payment. Activities -2.5 marks, Activity Diagram -3.5 marks.	cka 6 no package i	mel priferent	2
6	b Outline an automated fire alarm system and bring out the difference between function oriented software design approaches and object oriented software design approach.	J18/2	I I	2 Very Market

		novi flost OR			
(1)	a	Summarize the buzzwords of Java that defines the Java programming language.	5	I	2
		Any 5 java buzzwords in detail -5 marks.			
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
183	2-23	Diagram -3 marks, types-1mark, Explanation-5marks.		1-35-101	i ing
	Eve	tend the use of Looping statements in Java with examples.	14	II	2
8	EX	tiend the use of Looping statements in Java with examples.	084	5)10/1	
		oop statements with syntax/flowchart-6 marks, Example for h-8 marks			
in A	To	OR			OV
	a	Interpret the role of 'super and 'final' keyword in context with inheritance in Java with appropriate example.	5	II	2
9		Explanation for each keyword -2 marks, Example for each -3 marks.	ition for j	nelgv3 i tsi A	
	b	Explain in detail various operators in java with appropriate examples.	9	II	2
		Listing – 1 mark, Explanation -4 marks ,Example–4marks.	dan dan	marks.	
1		B 2 6 in their from each other in 6 1 ft	, , , , , , , , , , , , , , , , , , ,	d Cave	1
	Eve	estrate a Java package named 'even package', with a class en containing a static method that check whether a number over not and returns that information. Import this	nn Çanın	a ĉ yn l	2
10		even or not, and returns that information. Import this ckage in another class and use to check a number is even or	Hil 7 odi	i is III cach.	2
	1	ckage creation- 2 marks, logic -1.5 marks, Program-3.5 rks.	l maritu E actuago a	Listing - Define F	
		OR dans to			
<ह। 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.	IU 7 e v	Syst	2
		ble of Access Specifiers-7 marks.			

CO - Course Outcome [CO]
CO I: To introduce basic concepts of object oriented design techniques and to understand the basis of java language.

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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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KANNUR

Name:	Roll No:



SREE NARAYANA GURU COLLEGE OF ENGINEERING

Series Test	2 dilleg one such endings bushed to the	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		Marks	CO	Level
1	Compare byte stream and character stream related classes in Java.	3	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 out the features of Swing API.	3	V	1
	PART B	<max n<="" td=""><td>MARK</td><td>S: 35></td></max>	MARK	S: 35>
6	Explain in detail exceptions and various exceptions handling keyword in Java with examples.	7	III	2
	OR			
7	Extend the features of files in java with appropriate file handling operations.	7	III	2
8	Summarize different string comparison methods of String class with appropriate examples.	14	IV	2
	OR			
9	Demonstrate the event handling mechanism in java using the Delegation Event Model with list of source events and corresponding event listener interfaces.	14	IV	2
. 10	Illustrate the steps to establish database connectivity in java with a sample code.	14	V	2
	OR	/		
11	Outline a java program to illustrate the use of JTextField JFrame and JLabel.	14	V	2

Dr. LEENA ALLEGE OF WAR

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

Dr. LEENA A. V.
PRINCIPAL

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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	replij at bing goder tom sterme starte i likind to notings let odt bit	Marks	CO	Leve
1	Compare byte stream and character stream related classes in Java.	3	III	2
	Comparison 3 key points-3 marks.	e to a zona		W.
2	Show the life cycle of thread showing the different states and	3	IV	2
2	method involved in it.			00
ALAB	Diagram-1.5marks, Explanation-1.5 marks			
3	Contrast the difference between String and String Buffer class	3	IV	2
3	in Java with an example.	mogh		
	Comparison 3 key points-3 marks.		21 14 15	W9.1
4	Name any three Swing Layout Managers in java and point out	3	V	1
7	their uses in GUI.			
	Listing – 1.5 marks, Use-1.5 marks.			
5	List out the features of Swing API.	3	V	1
	Any 6 Features – 3 marks.			
	PART B	<max n<="" td=""><td>IARK</td><td>S: 35></td></max>	IARK	S: 35>
	Explain in detail exceptions and various exceptions handling	7	III	2
6	keyword in Java with examples.			
V	Definition-1 mark, Types-1 marks, Keywords & Its	4		
	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.			
	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.	7.	08.5	

arx.	Definition-1.5 marks, Figure-1.5 marks, Explanation-6 marks, Source of events – 2.5 marks, Event Listener Interface-2.5 marks.	e i i i i i i i i i i i i i i i i i i i	197	
	* FIICHNOLOGOL PAY'L ANNUR, KANNUR			
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 / 83	OR CHIEF TO MICHELL PORT SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD			
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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Name:	Roll No:



SREE NARAYANA GURU COLLEGE OF ENGINEERING. & TECHNOLOGY,

Series Test	RETEST	Academic Year/Semester	2022-23 / S3
Subject name with code	CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA	Branch	CSE
Date of Exam	05/01/2023	Duration	120 mins
Starting time	9:30 AM	Max. Marks	50

	PART A	<max n<="" th=""><th>MARK</th><th>S:15></th></max>	MARK	S:15>
Q.No		Marks	CO	Level
1	Summarize the buzzwords of Java that defines the Java programming language.	3	1	2
2	Contrast the difference between checked exception and unchecked exception.	3	Ш	2
3	Define 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 out the features of Swing API.	3	V	1
	PART B	<max< td=""><td>MAR</td><td>KS:35></td></max<>	MAR	KS:35>
6	Outline an automated fire alarm system and bring out the difference between function oriented software design approaches and object oriented software design approach.	7	I	2
	OR			
7	Show an UML interaction diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, Food Item, Category, Payment.	7	I	2
8	Explain in detail exceptions and various exceptions handling keyword in Java with appropriate java programs.	14	III	2
	OR			
9	Elaborate the visibility of all Access Specifiers available in Java with respect to: same class, same package sub-class, same package non sub-class, different package sub-class, different package non sub-class.	14	III	2
10	Illustrate the steps to establish database connectivity in java with a sample code.	14	V	2
	OR			

11	Outline a java program to illustrate the use of JTextField,	14	V	2
11	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

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Roll No:



SREE NARAYANA GURU COLLEGE OF ENGINEERING TECHNOLOGY,

VALUATION SCHEME/ANSWER KEY

Series Test	RETEST(SCHEME)	Academic Year/Semester	2022-23 / S3
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>MARK</th><th>S:15></th></max>	MARK	S:15>
Q.No		Marks	CO	Level
1 bant	List out the buzzwords of Java that defines the Java programming language. List out all the buzzwords of java- 3 marks.	3	that all	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		13 / 1 1 lare. 1 le re.
5	List out the features of Swing API. Any 6 Features – 3 marks.	3	V	1
	PART B	<max< td=""><td>MARI</td><td>KS: 35></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	I	2
	OR			
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	I	2
	Figure- 2 marks, Explanation and Difference-3 marks.			
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	III	2
	OR	1/3	. 6 4	35
9	Elaborate the visibility of all Access Specifiers available in Java with respect to: same class, same package sub-class,	14	MI	2

u5	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.			Vanne,
10	Illustrate the steps to establish database connectivity in java with a sample code.	14	V	2
183	Steps - 3 marks, Explanation-5 marks, Sample Code - 6		- 1799	Settler
	marks.	C81 21	11445713	139 CH2
	OR			360 7 100
11	Outline a java program to illustrate the use of JTextField, JFrame and JLabel.	14	V	2
- 12 3 -	Syntax- 2 marks, Logic – 5marks, Program-7 marks.			

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

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KANNUR