



## **Sree Narayana Guru College of Engineering & Technology**

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



### **BLOOM'S TAXONOMY IN QUESTION PAPERS AND SCHEME OF VALUATION**



**SREE NARAYANA GURU COLLEGE OF ENGINEERING &  
TECHNOLOGY**

<b>ASSIGNMENT</b>	<b>1</b>	<b>Academic Year / Semester</b>	<b>2022-23/01</b>
<b>Subject name with code</b>	<b>221TCE008 STRUCTURAL DYNAMICS</b>	<b>Branch</b>	<b>COMPUTER AIDED STRUCTURAL ENGG</b>
<b>Date of Issue</b>	<b>14/11/2022</b>	<b>Date of submission</b>	

Q.No	QUESTIONS	Marks	CO	Level
1	<p>A vibrating system consist of a mass 5 kg, spring of stiffness 120 N/m and a damper with a damping co-eff of 5 N.s/m. Determine .</p> <p>a) Damping factor b) Natural frequency &amp; damped frequency c) Logarithmic decrement d) Ratio of 2 successive amplitudes e) No. of cycles after which the initial amplitude is reduced to 25%</p>	10	1	3

**CO - Course Outcome [CO]**

CO1: Model and analyse single-degree of freedom systems subjected to free vibration

**LEVEL - Bloom's Taxonomy Level**

Level 1: Remember

Level 2: Understand

Level 3: Apply

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ASSIGNMENT	1	Academic Year / Semester	2022-23/01
Subject name with code	221TCE008 STRUCTURAL DYNAMICS	Branch	Computer aided Structural Engg
Date of Issue	14/11/22	Date of submission	24/11/22

**ANSWER SCHEME**

Q.No		Marks
1.	Damping factor = 0.102	— 2
	Natural frequency = 4.9 rad/sec	— 1
	Damped natural frequency = 4.87 rad/sec	— 1
	Logarithmic decrement = 0.64	— 2
	Ratio between 2 consecutive amplitudes $\frac{x_1}{x_2} = 1.896$	— 2
	No. of cycles after 25% reduction = 2.166 $\approx$ 3 cycles	— 2

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**SREE NARAYANA GURU COLLEGE OF ENGINEERING &  
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ASSIGNMENT	2	Academic Year / Semester	2022-23/01
Subject name with code	221TCE008 STRUCTURAL DYNAMICS	Branch	COMPUTER AIDED STRUCTURAL ENGINEERING
Date of Issue	9/12/2022	Date of submission	

Q.No	QUESTIONS	Marks	CO	Level
1	Explain different types of vibration isolation in detail.	10	2	2

**CO - Course Outcome [CO]**

CO2: Analyse SDOF systems subjected to different dynamic forces and understand the concept of vibration isolation

**LEVEL - Bloom's Taxonomy Level**

Level 1: Remember  
Level 2: Understand  
Level 3: Apply

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ASSIGNMENT	2	Academic Year / Semester	22-23 / Mtech-S1
Subject name with code	Structural dynamics 22ITCE008	Branch	CAS-Mech
Date of Issue	9/12/22	Date of submission	16/12/22

**ANSWER SCHEME**

Q.No		Marks
1.	Vibration isolation - General	2
	Passive isolation (Explanation, methods, significance)	4
	Active isolation (Explanation, methods, significance)	4

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ASSIGNMENT	3	Academic Year / Semester	22-23 / 01
Subject name with code	STRUCTURAL DYNAMICS 221TE008	Branch	Mtech CAS
Date of Issue	4/01/23	Date of submission	11/01/23

Q.No	QUESTIONS	Marks	CO	Level
1	<p>Determine the natural frequencies &amp; mode-shapes for the shear building</p>	10	3	3

**CO - Course Outcome [CO]**

CO 3: Perform dynamic analysis of MDOF systems

**LEVEL - Bloom's Taxonomy Level**

Level 1: Remember  
Level 2: Understand  
Level 3: Apply

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ASSIGNMENT	3	Academic Year / Semester	22-23/01
Subject name with code	STRUCTURAL DYNAMICS 22ITCE008	Branch	Mtech CAS
Date of Issue	4/01/23	Date of submission	11/01/23

**ANSWER SCHEME**

Q.No		Marks
1	Mass matrix Stiffness matrix Characteristic equation Natural frequencies $\omega_1 = 14.5 \text{ rad/s}$ $\omega_2 = 31.1 \text{ rad/s}$ $\omega_3 = 46.1 \text{ rad/s}$ Modes (1) $\begin{Bmatrix} 0.644 \\ 0.3 \end{Bmatrix}$ (2) $\begin{Bmatrix} -0.601 \\ -0.676 \end{Bmatrix}$ (3) $\begin{Bmatrix} -2.57 \\ 2.47 \end{Bmatrix}$	1 2   4  3

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Assignment no.	4	Academic Year / Semester	2022-23 / 01
Subject name with code	STRUCTURAL DYNAMICS 221TCE008	Branch	M.TECH CAS
Date of Issue	18/01/23	Date of submission	25/01/23

Q.No	QUESTIONS	Marks	CO	Level
1	<p>Find the damped vibration response of the 2-storey shear building due to harmonic excitation <math>\{P(t)\} = \{P_0\} \sin \omega t</math> &amp; <math>c = \sqrt{\frac{km}{200}}</math></p>	10	4	3

**CO - Course Outcome [CO]**

CO 4: Perform the analysis of MDOF systems subjected to forced vibration

**LEVEL - Bloom's Taxonomy Level**

Level 1 : Remember

Level 2 : Understand

Level 3 : Apply

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### & TECHNOLOGY

Assignment no.	4	Academic Year / Semester	2022-23 / 01
Subject name with code	STRUCTURAL DYNAMICS 221TCE008	Branch	M. TECH CAS
Date of Issue	18/01/23	Date of submission	25/01/23

### ANSWER SCHEME

Q.No		Marks
1	Equation of motion & $[M]$ , $[K]$ , $[C]$ , matrices — 1	
	Solving the characteristic equation and finding the values of natural frequencies & mode shapes $\omega_1 = \sqrt{\frac{k}{m}}$ $\omega_2 = \sqrt{\frac{2k}{m}}$ — 3	
	$\{\phi_1\} = \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$ $\{\phi_2\} = \begin{Bmatrix} -1 \\ 1 \end{Bmatrix}$ — 3	
	Formation of uncoupled matrices $[M^*]$ , $[K^*]$ , $[C^*]$ , $\{P^*\}$ — 3	
	Calculation of generalized coordinates $q(t)$ — 2	
	Calculation of displacement response $x(t) = \sum \{\phi\} q(t)$ — 1	

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**& TECHNOLOGY**

Assignment no.	5	Academic Year / Semester	2022-23 M.TECH S1.
Subject name with code	STRUCTURAL DYNAMICS 22ITCE 008	Branch	M.TECH CAS
Date of Issue	02/02/23	Date of submission	09/02/23

Q.No	QUESTIONS	Marks	CO	Level
1	Form the differential equation for axial vibration of rods.	10	5	2

**CO - Course Outcome [CO]**

CO 5 : Perform the dynamic analysis of distributed parameter systems

**LEVEL - Bloom's Taxonomy Level**

Level 1 : Remember

Level 2 : Understand

Level 3 : Apply

  
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Assignment no.	5	Academic Year / Semester	2022-23 / 01
Subject name with code	STRUCTURAL DYNAMICS 221TCE008	Branch	M.TECH CAS
Date of Issue	02/02/23	Date of submission	09/02/23

**ANSWER SCHEME**

Q.No		Marks
1	Free body diagram — 3 stress-strain & axial force relations. — 3 Differential eqn of motion from the free body diagram. — 3 General solution — 1	10

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# **SREE NARAYANA GURU COLLEGE OF ENGINEERING**

## **& TECHNOLOGY,**

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

### **PART A**

&lt;MAX MARKS : 15&gt;

Q.No		Marks	CO	Level
1	Why the "main" method in Java is qualifies as public, static, void?	3	I	1
2	What is a class diagram? Sketch an UML class diagram for Online Movie Ticket Booking System.	3	I	1
3	How Array and Vector Class differ from each other in Java? Justify your answer.	3	II	1
4	List out the different datatypes in Java. Give example for each.	3	II	1
5	Define Package and Interface in java.	3	III	1

### **PART B**

&lt;MAX MARKS: 35&gt;

6	a	Show an UML Activity diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, Food Item, Category, Payment.	6	I	2
	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	I	2

OR

7	a	Summarize the buzzwords of Java that defines the Java programming language.	5	I	2
	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	Extend the use of Looping statements in Java with examples.	14	II	2
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OR

9	a	Interpret the role of 'super and 'final' keyword in context with inheritance in Java with appropriate example.	5	II	2
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	b	Explain in detail various operators in java with appropriate examples.	9	II	2
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
OR					
11		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.	7	III	2

### **CO - Course Outcome [CO]**

**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**

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**SREE NARAYANA GURU COLLEGE OF ENGINEERING****& TECHNOLOGY,****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	120 mins
Starting time	9:30 am	Max. Marks	50

**PART A****<MAX MARKS : 15>**

Q.No		Marks	CO	Level
1	Why the "main" method in Java is qualifies as public, static, void.  <b>Explanation for public, static, void keywords – 1 mark each</b>	3	I	1
2	What is a class diagram? Sketch an UML class diagram for Online Movie Ticket Booking System.  <b>Class Diagram-1mark, Class diagram for banking system-2 marks.</b>	3	I	1
3	How Array and Vector Class differ from each other in Java? Justify your answer.  <b>Any 3 points-3 marks.</b>	3	II	1
4	List out the different datatypes in Java. Give example for each.  <b>Listing -1 mark, Example for each datatypes-2 marks.</b>	3	II	1
5	Define Package and Interface in java.  <b>Definition -1.5 marks each</b>	3	III	1

**PART B****<MAX MARKS: 35>**

6	a	Show an UML Activity diagram for Food Ordering Systems which shows flows between the activity Order, Delivery, Food Item, Category, Payment.  <b>Activities -2.5 marks, Activity Diagram -3.5 marks.</b>	6	I	2
	b	Outline an automated fire alarm system and bring out the difference between function oriented software design approaches and object oriented software design approach.  <b>Figure- 2 marks, Explanation and Difference-6 marks.</b>	8	I	2

OR					
7	a	Summarize the buzzwords of Java that defines the Java programming language.  <b>Any 5 java buzzwords in detail -5 marks.</b>	5	I	2
	b	Demonstrate an interaction diagram for an order management system and differentiate the two types of interaction diagram based on it.  <b>Diagram -3 marks, types-1mark, Explanation-5marks.</b>	9	I	2
8	Extend the use of Looping statements in Java with examples.  <b>3 Loop statements with syntax/flowchart-6 marks, Example for each-8 marks</b>		14	II	2
OR					
9	a	Interpret the role of 'super and 'final' keyword in context with inheritance in Java with appropriate example.  <b>Explanation for each keyword -2 marks, Example for each -3 marks.</b>	5	II	2
	b	Explain in detail various operators in java with appropriate examples.  <b>Listing – 1 mark, Explanation -4 marks ,Example-4marks.</b>	9	II	2
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.  <b>Package creation- 2 marks, logic -1.5 marks, Program-3.5 marks.</b>		7	III	2
OR					
11	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.  <b>Table of Access Specifiers-7 marks.</b>		7	III	2

**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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**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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**SREE NARAYANA GURU COLLEGE OF ENGINEERING****TECHNOLOGY.**

Series Test	2	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

<b>PART A</b>		<b>&lt;MAX MARKS : 15&gt;</b>		
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
<b>PART B</b>		<b>&lt;MAX MARKS: 35&gt;</b>		
6	Explain in detail exceptions and various exceptions handling keyword in Java with examples.	7	III	2
<b>OR</b>				
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
<b>OR</b>				
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
<b>OR</b>				
11	Outline a java program to illustrate the use of JTextField, JFrame and JLabel.	14	V	2

**CO - Course Outcome [CO]**

**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**

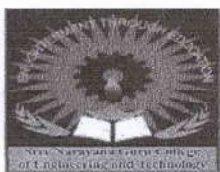
**Level 2: UNDERSTANDING**

  
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**SREE NARAYANA GURU COLLEGE OF ENGINEERING****& TECHNOLOGY, KANNUR****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

<b>PART A</b>				
<b>&lt;MAX MARKS : 15&gt;</b>				
Q.No		Marks	CO	Level
1	Compare byte stream and character stream related classes in Java. <b>Comparison 3 key points-3 marks.</b>	3	III	2
2	Show the life cycle of thread showing the different states and method involved in it. <b>Diagram-1.5marks, Explanation-1.5 marks</b>	3	IV	2
3	Contrast the difference between String and String Buffer class in Java with an example. <b>Comparison 3 key points-3 marks.</b>	3	IV	2
4	Name any three Swing Layout Managers in java and point out their uses in GUI. <b>Listing – 1.5 marks, Use-1.5 marks.</b>	3	V	1
5	List out the features of Swing API. <b>Any 6 Features – 3 marks.</b>	3	V	1
<b>PART B</b>				
<b>&lt;MAX MARKS: 35&gt;</b>				
6	Explain in detail exceptions and various exceptions handling keyword in Java with examples. <b>Definition-1 mark, Types-1 marks, Keywords &amp; Its examples-5 marks.</b>	7	III	2
<b>OR</b>				
7	Extend the features of any two file handling operations in java with appropriate examples for each. <b>List out – 1 mark , Explanation – 3 marks each.</b>	7	III	2
8	Summarize different string comparison methods of String class with appropriate examples. <b>Methods with Syntax-4 marks. Example -10 marks each.</b>	14	IV	2
<b>OR</b>				
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

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	Definition-1.5 marks, Figure-1.5 marks, Explanation-6 marks, Source of events – 2.5 marks , Event Listener Interface-2.5marks.			
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
OR				
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 - Course Outcome [CO]

**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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**SREE NARAYANA GURU COLLEGE OF ENGINEERING &  
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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 MARKS : 15>		
Q.No		Marks	CO	Level
1	Summarize the buzzwords of Java that defines the Java programming language.	3	I	2
2	Contrast the difference between checked exception and unchecked exception.	3	III	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 MARKS: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, JFrame and JLabel.	14	V	2
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**CO - Course Outcome [CO]**

**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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**SREE NARAYANA GURU COLLEGE OF ENGINEERING  
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**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 MARKS : 15>		
Q.No		Marks	CO	Level
1	List out the buzzwords of Java that defines the Java programming language. <b>List out all the buzzwords of java- 3 marks.</b>	3	I	2
2	Contrast the difference between checked exception and unchecked exception. <b>Difference – 3 marks.</b>	3	III	2
3	Define packages and interfaces. <b>Definition -1.5 marks each.</b>	3	III	1
4	Name any three Swing Layout Managers in java and point out their uses in GUI. <b>Listing – 1.5 marks, Use-1.5 marks.</b>	3	V	1
5	List out the features of Swing API. <b>Any 6 Features – 3 marks.</b>	3	V	1
PART B		<MAX MARKS: 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. <b>Figure- 2 marks, Explanation and Difference-5 marks.</b>	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. <b>Figure- 2 marks, Explanation and Difference-5 marks.</b>	7	I	2
OR				
8	Explain in detail exceptions and various exceptions handling keyword in Java with appropriate java programs. <b>Definition-1 mark, Keywords &amp; syntax -5 Its example java programs- 8 marks.</b>	14	III	2
OR				
9	Elaborate the visibility of all Access Specifiers available in Java with respect to: same class, same package sub-class,	14	III	2



	same package non sub-class, different package sub-class, different package non sub-class. <b>Definition – 2 marks, Types – 1 mark, Explanation-4marks, Table of Access Specifiers-7 marks.</b>			
10	Illustrate the steps to establish database connectivity in java with a sample code. <b>Steps – 3 marks, Explanation-5 marks, Sample Code - 6 marks.</b>	14	V	2
<b>OR</b>				
11	Outline a java program to illustrate the use of JTextField, JFrame and JLabel. <b>Syntax- 2 marks , Logic – 5marks ,Program-7 marks.</b>	14	V	2

### **CO - Course Outcome [CO]**

**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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<i>Tutorial</i>	<b>1</b>	<i>Academic Year / Semester</i>	<b>2022-23/5</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	14/09/2022	<i>Date of submission</i>	29/09/2022

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Illustrate the following java program: 1. Check the given number is prime or not 2. Check the given number is odd or even 3. Check the given string is palindrome or not 4. Print Fibonacci series 5. Matrix Addition 6. Sum of elements in an array. 7. Print a pyramid series	<b>35</b>	I	2

**CO - Course Outcome [CO]**

CO 1: Implement programs in Java which use data types, operators, control statements, built in packages & interfaces, Input/output streams and Files.

**LEVEL - Bloom's Taxonomy Level**

Level 2: Understanding

  
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**ANSWER KEY/VALUATION SCHEME**

<i>Tutorial</i>	<b>1 (SCHEME)</b>	<i>Academic Year / Semester</i>	<b>2022-23/5</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	14/09/2022	<i>Date of submission</i>	29/09/2022

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	<p>Illustrate the following java program:</p> <ol style="list-style-type: none"><li>1. Check the given number is prime or not</li><li>2. Check the given number is odd or even</li><li>3. Check the given string is palindrome or not</li><li>4. Print Fibonacci series</li><li>5. Matrix Addition</li><li>6. Sum of elements in an array.</li><li>7. Print a pyramid series</li></ol> <p>Each programs – 5 marks</p>	35	I	2

**CO - Course Outcome [CO]**

CO 1: Implement programs in Java which use data types, operators, control statements, built in packages & interfaces, Input/output streams and Files.

**LEVEL - Bloom's Taxonomy Level**

Level 2: Understanding

  
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<i>Tutorial</i>	<b>2</b>	<i>Academic Year / Semester</i>	<b>2022-23/5</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>1/10/2022</b>	<i>Date of submission</i>	<b>10/10/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	<p>Illustrate the following UML diagram:</p> <ol style="list-style-type: none"><li>1. Use case for Movie Reservation System.</li><li>2. Use case for Online Music Player System.</li><li>3. Class diagram for a Library Management System.</li><li>4. Class diagram for Online Movie Ticket Booking.</li><li>5. Activity diagram for Food Ordering System.</li></ol>	25	I	2

**CO - Course Outcome [CO]**

CO 1: Implement programs in Java which use data types, operators, control statements, built in packages & interfaces, Input/output streams and Files.

**LEVEL - Bloom's Taxonomy Level**

Level 2: Understanding

  
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**ANSWER KEY/VALUATION SCHEME**

<i>Tutorial</i>	<b>2 (SCHEME)</b>	<i>Academic Year / Semester</i>	<b>2022-23/5</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	1/10/2022	<i>Date of submission</i>	10/10/2022

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	<p>Illustrate the following UML diagram:</p> <ol style="list-style-type: none"><li>1. Use case for Movie Reservation System.</li><li>2. Use case for Online Music Player System.</li><li>3. Class diagram for a Library Management System.</li><li>4. Class diagram for Online Movie Ticket Booking.</li><li>5. Activity diagram for Food Ordering System.</li></ol> <p><b>Diagram- 5 marks each</b></p>	25	I	2

**CO - Course Outcome [CO]**

CO 1: Implement programs in Java which use data types, operators, control statements, built in packages & interfaces, Input/output streams and Files.

**LEVEL - Bloom's Taxonomy Level**

Level 2: Understanding

  
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<i>Tutorial</i>	<b>3</b>	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>07/10/2022</b>	<i>Date of submission</i>	<b>14/10/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Demonstrate the following control statements in Java: i. Decision Making /Selection Statements ii. Looping Statements iii. Jump Statements	10	2	2

**CO - Course Outcome [CO]**

**CO 2 :**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.

**LEVEL - Bloom's Taxonomy Level**

**Level 2:** Understanding

  
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**Answer key /Valuation Scheme**

<i>Tutorial</i>	<b>3(Scheme)</b>	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>07/10/2022</b>	<i>Date of submission</i>	<b>14/10/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Demonstrate the following control statements in Java: i. Decision Making /Selection Statements ii. Looping Statements iii. Jump Statements  Syntax and Flowchart – 5 marks for each , Programming Example – 5 marks for each	30	2	2

**CO - Course Outcome [CO]**

**CO 2 :** 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.

**LEVEL - Bloom's Taxonomy Level**

**Level 2:** Understanding

  
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<i>Tutorial</i>	4	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>17/10/2022</b>	<i>Date of submission</i>	<b>25/10/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Contrast the difference between Method overloading and Method Overriding.	5	2	2
2.	Define abstract class.	5	2	1
3.	Compare and contrast class and abstract class.	5	2	2

**CO - Course Outcome [CO]**

**CO 2 :**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.

**LEVEL - Bloom's Taxonomy Level**

**Level 1:** Remenmbering

**Level 2:** Understanding

  
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**Answer Key/Valuation Scheme**

<i>Tutorial</i>	4(Scheme)	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>17/10/2022</b>	<i>Date of submission</i>	<b>25/10/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Contrast the difference between Method overloading and Method Overriding.  <b>Any 5 points – 5 marks</b>	5	2	2
2.	Define abstract class.  <b>Definition -1 mark, Explanation – 4 marks</b>	5	2	1
3.	Compare and contrast class and abstract class.  <b>Comparison – 5 marks</b>	5	2	2

**CO - Course Outcome [CO]**

**CO 2 :** 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.

**LEVEL - Bloom's Taxonomy Level**

**Level 1:** Remembering

**Level 2:** Understanding

  
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<i>Tutorial</i>	5	<i>Academic Year / Semester</i>	2022-23/ 3
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>31/10/2022</b>	<i>Date of submission</i>	<b>11/11/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Develop a java package named primepackage, with a class Prime containing a static method that check whether a number is prime or not and returns that information. Import this package in another class and use to check a number is prime or not.	5	3	3
2.	Illustrate a java package named "even" package with a class Even containing a static method to check whether a given number is even or not.	5	3	2
3.	Contrast the difference between packages and interface.	5	3	2

**CO - Course Outcome [CO]**

**CO 3:** 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 2:** Understanding

**Level 3:** Applying

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**Answer Key / Valuation Scheme**

<i>Tutorial</i>	5(Scheme)	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>31/10/2022</b>	<i>Date of submission</i>	<b>11/11/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Develop a java package named primepackage, with a class Prime containing a static method that check whether a number is prime or not and returns that information. Import this package in another class and use to check a number is prime or not.  <b>Syntax and logic -2.5 mark , Program – 2.5 marks.</b>	5	3	3
2.	Illustrate a java package named “even” package with a class Even containing a static method to check whether a given number is even or not.  <b>Syntax and logic -2.5 mark , Program – 2.5 marks.</b>	5	3	2
3.	Contrast the difference between packages and interface.  <b>Any 5 points -5 marks.</b>	5	3	2

**CO - Course Outcome [CO]**

**CO 3:** 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 2:** Understanding

**Level 3:** Applying



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<i>Tutorial</i>	6	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>22/11/2022</b>	<i>Date of submission</i>	<b>30/11/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Explain in detail following file handling operations in java: i. Create a file ii. Get information of a file iii. Read from a file iv. Write to a file v. Delete a file	10	3	2

**CO - Course Outcome [CO]**

**CO 3:** 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 2:** Understanding

  
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Valuation Key/ Answer Scheme

<i>Tutorial</i>	6(Scheme)	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>22/11/2022</b>	<i>Date of submission</i>	<b>30/11/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Explain in detail following file handling operations in java: i. Create a file ii. Get information of a file iii. Read from a file iv. Write to a file v. Delete a file  <b>Each operation with simple java program – 10 marks.</b>	10	3	2

**CO - Course Outcome [CO]**

**CO 3:** 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 2:** Understanding

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<i>Tutorial</i>	<b>7</b>	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>02/12/2022</b>	<i>Date of submission</i>	<b>15/12/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Illustrate different event classes and event listener interface in java.	10	4	2

**CO - Course Outcome [CO]**

**CO 4:** To provide basic exposure for the application of programs in java using multithreading, string handling mechanisms, collection framework and event handling mechanisms.

**LEVEL - Bloom's Taxonomy Level**

**Level 2:** Understanding

  
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**Valuation Key/ Answer Scheme**

<i>Tutorial</i>	7(Scheme)	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>02/12/2022</b>	<i>Date of submission</i>	<b>15/12/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Illustrate different event classes and event listener interface in java.  <b>List out the event class and event listener interface- 2 marks, Explanation – 8 marks.</b>	10	4	2

**CO - Course Outcome [CO]**

**CO 4:** To provide basic exposure for the application of programs in java using multithreading, string handling mechanisms, collection framework and event handling mechanisms.

**LEVEL - Bloom's Taxonomy Level**

**Level 2:** Understanding

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<i>Tutorial</i>	<b>8</b>	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>12/12/2022</b>	<i>Date of submission</i>	<b>21/12/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Explain in detail different Swing layout managers in Java swing.	10	5	2

**CO - Course Outcome [CO]**

**CO 5:** To impart the techniques of creating GUI based applications and database connectivity.

**LEVEL - Bloom's Taxonomy Level**

**Level 2:** Understanding

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Valuation Key/ Answer Scheme

<i>Tutorial</i>	<b>8(Scheme)</b>	<i>Academic Year / Semester</i>	<b>2022-23/ 3</b>
<i>Subject name with code</i>	<b>CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA</b>	<i>Branch</i>	<b>CSE</b>
<i>Date of Issue</i>	<b>12/12/2022</b>	<i>Date of submission</i>	<b>21/12/2022</b>

<i>Q.No</i>	<i>QUESTIONS</i>	<i>Mark</i>	<i>CO</i>	<i>Level</i>
1.	Explain in detail different Swing layout managers in Java swing.  List out the Swing layout manager - 2 marks, Explanation with figures- 8 marks.	10	5	2

**CO - Course Outcome [CO]**

**CO 5:** To impart the techniques of creating GUI based applications and database connectivity.

**LEVEL - Bloom's Taxonomy Level**

**Level 2:** Understanding

  
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