



Sri Indu

College of Engineering & Technology

UGC Autonomous Institution

Recognized under 2(f) & 12(B) of UGC Act 1956,
NAAC, Approved by AICTE &
Permanently Affiliated to JNTUH



NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



HANDOUT

III Year I Semester

DEPARTMENT OF AI&DS

ACADEMIC YEAR 2025-2026



SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution under UGC, New Delhi)

(Permanently Affiliated to INTU, Approved by AICTE, New Delhi and Accredited by NBA, NAAC)

DEPARTMENT OF AI&DS

HANDOUT-INDEX

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SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution under UGC, New Delhi)

(Permanently Affiliated to JNTUH, Approved by AICTE, New Delhi and Accredited by

NBA, NAAC) Sheriguda Village, Ibrahimpatnam Mandal, Ranga Reddy Dist. – 501510

VISION OF THE INSTITUTE

To be a premier institution in engineering & technology and management for competency, values and social consciousness.

MISSION OF THE INSTITUTE

IM₁: Provide high quality academic programs, training activities and research facilities.

IM₂: Promote continuous industry-institute interaction aimed at promoting employability, entrepreneurship, leadership and research aptitude among stakeholders.

IM₃: Contribute to the economic and technological development of the region, state and nation.

DEPARTMENT VISION

To develop competent engineers in the domain of Artificial Intelligence & Machine Learning for noteworthy contributions to the society

DEPARTMENT MISSION

DM₁: To strengthen academic collaborations for better exposure.

DM₂: Promote professional environment to imbibe ethical values and entrepreneurial skills

DM₃: Encourage research & development by emphasizing on innovation

DM₄: Facilitate Industry-Institute collaboration for mutual benefit

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO₁: Generate contributions towards advancements in Artificial Intelligence and Machine Learning.

PEO₂: Promote design, research and implementation of products through strong communication skills, leadership and entrepreneurial skills.

PEO₃: Apply basic principles and practices of AIML to successfully complete software related projects to meet customer business objectives and/or productively engage in research.

Program Outcomes(POs)

PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, Natural sciences, and engineering sciences.
PO3	Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Engineering tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling recognizing their limitations to solve complex engineering problems.(WK2 and WK6).
PO6	The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy,health,safety,legal framework,cultural and environment. (WK1,WK5 and WK7).
PO7	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO8	Individual and Collaborative Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO9	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO10	Project management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO11	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes(PSO's)

PSO1	Register mathematical methodology to crack problems using suitable data structures.
PSO2	Competence to design and develop software for web based and mobiles androids under real world environment.
PSO3	Skill to design the algorithms for machine learning, data compression can be used in different applications.

COURSE OUTCOMES (CO's)

Academic Year: 2025-26

Class : III YEAR-I SEM.

Course Name : WEB PROGRAMMING

At the end of the course, the student will be able to

C315.1	Design web pages.
C315.2	Use technologies of web programming using Java.
C315.3	Create databases with connectivity using JDBC .
C315.4	Build web-based application using sockets.
C315.5	Create applets and working with AWT.
C315.6	XML and web services introduction.

COURSE ARTICULATION MATRIX

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C223.1	2	-	2	-	1	-	-	-	-	-	-	-	2	-
C223.2	3	-	2	-	3	-	-	-	-	-	-	1	3	-
C223.3	3	2	2	-	3	-	-	-	-	-	-	-	2	-
C223.4	3	-	3	-	3	-	-	-	-	-	-	-	3	-
C223.5	2	-	-	-	3	-	-	-	-	-	-	-	2	-
C223.6	2	-	2	-	2	-	-	-	-	-	-	-	2	-
C223	2.5	2	1.8	-	2.5	-	-	-	-	-	-	1	2.3	-

INSTITUTION ACADEMIC CALENDAR



SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution under UGC, New Delhi)
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NBA & NAAC Accredited, Approved by AICTE and Permanently affiliated to JNTUH
Sheriguda (V), Ibrahimpatnam, R.R. Dist, Hyderabad - 501 510

D4

ANNEXURE -II

BR-22

Lr.No.SICET/AUTO/DAE/III B.Tech Academic Calendar/29/2025

B.TECH III-YEAR I-SEM & II-SEM ACADEMIC CALENDAR (FOR ACADEMIC YEAR : 2025-26)

Academic Calendar for B.Tech – IIIrd Year Students (2023 - 24 Batch), BR-22 Regulation.

I – Semester

S.No.	EVENT	PERIOD	DURATION
1.	Commencement of class work.	14.07.2025 (Monday)	
2.	1 st Spell of Instructions for covering First Two and a half Units.	14.07.2025 – 13.09.2025	9 Weeks
3.	CRT Classes	15.09.2025 – 07.10.2025	2 Weeks 2 Days
4.	I Mid Term Examinations.	08.10.2025 – 10.10.2025	3 Days
5.	Submission of I Mid Term Examination Marks.	16.10.2025	
6.	2 nd Spell of Instructions for Remaining Two and a half Units.	13.10.2025 – 13.12.2025	9 Weeks
7.	II Mid Term Examinations.	15.12.2025 – 17.12.2025	3 Days
8.	Preparation Holidays and Practical Examinations	18.12.2025 – 27.12.2025	1 Week
9.	Submission of II Mid Term Examination Marks.	23.12.2025	
10.	I Semester End Examinations.	29.12.2025 – 10.01.2026	2 Weeks
Commencement of Class-Work for III B.Tech - II Semester 19.01.2026			

Note: No of Working/instructional days : 90

II – Semester

S.No.	EVENT	PERIOD	DURATION
1.	Commencement of class work.	19.01.2026 (Monday)	
2.	1 st Spell of Instructions for covering First Two and a half Units.	19.01.2026 – 14.03.2026	8 Weeks
3.	I Mid Term Examinations.	16.03.2026 – 18.03.2026	3 Days
4.	Submission of I Mid Term Examination Marks.	24.03.2026	
5.	2 nd Spell of Instructions for Remaining Two and a half Units.	20.03.2026 – 09.05.2026	7 Weeks
6.	Continuation of remaining 2 nd Spell of Instructions	25.05.2026 – 10.06.2026	2 Weeks
7.	II Mid Term Examinations.	11.06.2026 – 13.06.2026	3 Days
8.	Preparation Holidays and Project Evaluation.	15.06.2026 – 20.06.2026	1 Week
9.	Submission of II Mid Term Examination Marks.	18.06.2026	
10.	II Semester End Examinations	22.06.2026 – 04.07.2026	2 Weeks

Note: No of Working/instructional days : 93

ACE

CE

DIRECTOR

PRINCIPAL

Controller of Examination
Sri Indu College of Engineering & Technology
(An Autonomous Institution Under UGC)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510

DIRECTOR
Sri Indu College of Engineering & Technology
(An Autonomous Institution Under UGC)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510.

PRINCIPAL
Sri Indu College of Engineering & Technology
(An Autonomous Institution Under UGC)
Sheriguda (V), Ibrahimpatnam, R.R. Dist-501510

Sign:

Dr. M.V.S.S. Giridhar
Prof. of CEA; JNTUH Nominee

Sign:

Dr. T. Venu Gopal
Prof. of CSE; JNTUH Nominee

Sign:

Dr. D. Ramesh
Prof. of CSE; JNTUH Nominee

(Copy to DAP&E and Copy to all the Dept. Heads)

DEPARTMENT ACADEMIC CALENDAR

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(AI&ML) DEPARTMENT CALENDAR – 2025-2026(SEMESTER-I)

SUNDAY				SEPTEMBER				DECEMBER	
MONDAY	JULY		1	IV-I MID I EXAMS				1	IV-I END EXAMS
TUESDAY	DEPARTMENT MEETING FOR IV-I & III-I 2025-2026		2	IV-I MID I EXAMS	OCTOBER			2	IV-I END EXAMS
WEDNESDAY			3	IV-I MID I EXAMS	III-I CRT CLASSES			3	IV-I END EXAMS
THURSDAY		AUGUST	4	IV-I SPELL 2 CLASSES	GANDHI JAYANTI & DASHARA			4	IV-I END EXAMS
FRIDAY		II-I SPELL I CLASSES COMMENCEMENT	5		III-I CRT CLASSES	NOVEMBER		5	IV-I END EXAMS
SATURDAY		DEPARTMENT MEETING	6		III-I CRT CLASSES	WOKSHOP UNDER AI LUB		6	IV-I END EXAMS
SUNDAY			7					7	
MONDAY	IV-I SPELL I CLASSES COMMENCEMENT		8		III-I CRT CLASSES			8	IV-I END EXAMS
TUESDAY			9		III-I CRT CLASSES			9	IV-I END EXAMS
WEDNESDAY			10	IV-I MID I EXAMS SUBMISSION	III-I MID I EXAMS & II-I MID I EXAMS			10	IV-I END EXAMS
THURSDAY			11		III-I MID I EXAMS & II-I MID I EXAMS			11	IV-I END EXAMS
FRIDAY			12	DEPARTMENT MEETING REVIEW ON IV-I SLOW LEARNERS	III-I MID I EXAMS & II-I MID I EXAMS			12	IV-I END EXAMS
SATURDAY	AI CLUB MEETING	WOKSHOP UNDER AI LUB	13	AI CLUB MEETING				13	IV-I END EXAMS
SUNDAY			14					14	
MONDAY	III-I SPELL I CLASSES COMMENCEMENT		15	III-I CRT CLASSES	II-I & III-I SPELL 2 CLASSES			15	II-I & III-I MID II EXAMS
TUESDAY			16	III-I CRT CLASSES				16	II-I & III-I MID II EXAMS
WEDNESDAY			17	III-I CRT CLASSES				17	II-I & III-I MID II EXAMS
THURSDAY			18	III-I CRT CLASSES	II-I & III-I MID I EMARKS SUBMISSION			18	II-I & III-I PREPARATION & PRACTICAL EXAMS
FRIDAY		INDEPENDENCE DAY	19	III-I CRT CLASSES	DEPARTMENT MEETING REVIEW ON III-IB, II-I SLOW LEARNERS			19	II-I & III-I PREPARATION & PRACTICAL EXAMS
SATURDAY			20	III-I CRT CLASSES	AI CLUB MEETING			20	II-I & III-I PREPARATION & PRACTICAL EXAMS
SUNDAY			21	BATHUKAMMA				21	
MONDAY	BONALU HOLIDAY		22	III-I CRT CLASSES	DIWALI			22	II-I & III-I PREPARATION & PRACTICAL EXAMS
TUESDAY			23	III-I CRT CLASSES				23	II-I & III-I MID II MARKS SUBMISSION III-I PREPARATION & PRACTICAL EXAMS

WEDNESDAY	23		20		24	III-I CRT CLASSES	22		19	IV-I MID II EXAMS	24	II-I & III-I PREPARATION & PRACTICAL EXAMS	21
THURSDAY	24		21		25	III-I CRT CLASSES	23		20	IV-I MID II EXAMS	25	CHRISTMAS DAY	22
FRIDAY	25		22		26	III-I CRT CLASSES	24		21	IV-I MID II EXAMS	26	II-I & III-I PREPARATION & PRACTICAL EXAMS	23
SATURDAY	26		23		27	GANESH CHATURTHI	25	DEPARTMENT MEETING	22	AI CLUB MEETING	27	II-I & III-I PREPARATION & PRACTICAL EXAMS	24
SUNDAY	27		24		28		26		23		28		25
MONDAY	28	DEPARTMENT MEETING FOR II YR 2025-2026	25		29	III-I CRT CLASSES	27		24	IV-I PREPARATION & PRACTICAL EXAMS	29	II-I & III-I END EXAMS	26
TUESDAY	29		26		30	III-I CRT CLASSES	28		25	IV-I PREPARATION & PRACTICAL EXAMS	30	II-I & III-I END EXAMS	27
WEDNESDAY	30		27				29		26	IV-I PREPARATION & PRACTICAL EXAMS	31	II-I & III-I END EXAMS	28
THURSDAY	31		28				30		27	IV-I PREPARATION & PRACTICAL EXAMS			29
FRIDAY			29				31		28	IV-I PREPARATION & PRACTICAL EXAMS			30
SATURDAY			30	AI CLUB MEETING		WOKSHOP UNDER AI LUB			29	IV-I PREPARATION & PRACTICAL EXAMS			31
SUNDAY			31						30				

WEB PROGRAMMING

SYLLABUS

BR22 – B.TECH. – CSE(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution under UGC, New Delhi)

B.Tech. - III Year – I Semester

L	T	P	C
3	0	0	3

Professional Elective – I (R22CSD3146) WEB PROGRAMMING

Course Objectives: The student should be able to:

- Understand the technologies used in Web Programming.
- Know the importance of object-oriented aspects of Scripting.
- Understand creating database connectivity using JDBC.
- Learn the concepts of web-based application using sockets.

Course Outcomes: Upon Completion of the course, the students will be able to

- Design web pages.
- Use technologies of Web Programming.
- Apply object-oriented aspects to Scripting.
- Create databases with connectivity using JDBC.
- Build web-based application using sockets.

UNIT – I :SCRIPTING: Web page Designing using HTML, Scripting basics- Client side and server side scripting. Java Script-Object, names, literals, operators and expressions- statements and features- events - windows -documents - frames - data types - built-in functions- Browser object model - Verifying forms.- HTML 5-CSS3- HTML 5 canvas - Web site creation using tools.

UNIT – II : JAVA: Introduction to object-oriented programming-Features of Java – Data types, variables and arrays –Operators – Control statements – Classes and Methods – Inheritance. Packages and Interfaces – Exception Handling – Multithreaded Programming – Input/ Output – Files – Utility Classes – String Handling.

UNIT – III : JDBC: JDBC Overview – JDBC implementation – Connection class – Statements - Catching DatabaseResults, handling database Queries. Networking– Inet Address class – URL class- TCP sockets – UDPsockets, Java Beans –RMI.

UNIT – IV: APPLETS: Java applets- Life cycle of an applet – Adding images to an applet – Adding sound to an applet. Passing parameters to an applet. Event Handling. Introducing AWT: Working with Windows Graphics and Text. Using AWT Controls, Layout Managers and Menus. Servlet – life cycle of a servlet. The Servlet API, Handling HTTP Request and Response, using Cookies, Session Tracking. Introduction to JSP.

UNIT – V : XML AND WEB SERVICES: Xml – Introduction-Form Navigation-XML Documents- XSL – XSLT- Webservices-UDDI-WSDL-Java web services – Web resources.

TEXT BOOKS:

1. Harvey Deitel, Abbey Deitel, Internet and World Wide Web: How To Program 5th Edition.
2. Herbert Schildt, Java - The Complete Reference, 7th Edition. Tata McGraw- Hill Edition.
3. Michael Morrison XML Unleashed Tech media SAMS.

REFERENCE BOOKS:

1. John Pollock, Javascript - A Beginners Guide, 3rd Edition — Tata McGraw-Hill Edition.
2. Keyur Shah, Gateway to Java Programmer Sun Certification, Tata McGraw Hill, 2002.

**Prepared
on
2025**

R22CSD3146 - Web programming

III/I

P.Chaithanya Assistant. Professor

Unit/ Item No.	Topic (s)	Book Reference	Page (s)		Teaching Methodology	Proposed No. of Periods	Actual Date of Handled	CO/RBT
			From	To				
UNIT-I								
1.1	Web page designing using HTML	T1	1	12	Black Board	12		CO1,C1
1.2	Scripting basics -Client side and Server side	T1	14	16	Black Board	01		CO1,RB1
1.3	Java script -objects ,names,literals,operators	T1	17	29	Black Board	03		CO1,RB1
1.4	expressions-statements and features	T1	30	41	Black Board	02		CO1,RB1
1.5	events-windows document-frames- datatypes	T1	42	49	Black Board	03		CO1,C1
1.6	built in functions browser object models	T1	50	58	Black Board	02		CO1,C1
1.7	verifying forms HTML-5CSS3	T1	59	66	Black Board	03		CO1,E1
1.8	HTML 5 canvas web site creation using tools	T1	67	74	Black Board	03		CO1,C1
	Review	Signature of the HOD/Coordinator						

	SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY			Prepared on 2025
	LESSON PLAN			
	(Regulation :R22)			
	Department of AIML			
Sub. Code & Title	R22CSD3146 - Web programming			
Academic Year :2025-26	Year/Sem./Section	III/I		
Faculty Name & Designation	SYEDA AYESHA FATHIMA Assistant. Professor			

Unit/ Item No.	Topic (s)	Book Reference	Page (s)		Teaching Methodology	Proposed No. of Periods	Actual Date of Handled	CO/RBT
			From	To				
UNIT-II								
2.1	Introduction to object oriented programming	T2	35	41	Presentation	01		CO2,U1
2.2	Features of java-data types	T2	41	49	Presentation	02		CO2,RB2
2.3	variables and arrays-operators	T2	50	62	Presentation	02		CO2,Ap1
2.4	control statements	T2	62	68	Presentation	01		CO2,Ap1
2.5	classes and methods	T2	69	74	Black Board	02		CO2,Ap1
2.6	inheritance,packages	T2	75	80	Presentation	02		CO2,ap1
2.7	interfaces	T2	81	87	Presentation	01		CO2,Ap1
2.8	exception handling	R2	165	169	Black Board	02		CO2,Ap1
2.9	multithreaded programming	R2	170	173	Presentation	01		CO2,Ap1
2.10	input/output files	R2	174	179	Presentation	01		CO2,RB2
2.11	utility classes-string handling	R2	180	186	Black Board	02		CO2,Ap1
Unit/ Item No.	Topic (s)	Book Reference	Page(s)		Teaching Methodology	Proposed No. of Periods	Actual Date of Handled	CO/RBT
			From	To				

UNIT III

UNIT-V								
10								
5.1	xml-introduction	T3	12	17	Black Board	01		CO6,RB4
5.2	form navigation	T3	18	23	Black Board	01		CO6,An2
5.3	xml documents	T3	24	32	Black Board	01		CO6,RB4
5.4	xsl -xslt webservices	T3	33	37	Black Board	02		CO6,An2
5.5	UDDI	T3	38	42	Black Board	01		CO6,An2
5.6	WSDL	T3	43	49	Black Board	01		CO6,An2
5.7	java web services	T3	50	55	Presentation	01		CO6,Ev2
5.8	web resources	T3	56	61	Black Board	02		CO6,Ev2
	Review	Signature of the HOD/Coordinator						

LIST OF TEXT BOOKS AND REFERENCE TEXT**BOOKS:**

1. Harvey Dietel, Abbey Dietel, Internet and World Wide Web: How to program 5th edition.
2. Herbert Schildt, Java-The complete Reference, 7th edition .Tata McGraw-Hill edition.
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	SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY			Prepared On 2025
	LESSON PLAN			
	(Regulation :R22)			
	Department of AI&DS			
	Sub. Code & Title	R22csd3146 - Web Programming		
	Academic Year: 2025-26	Year/Sem./Section	II/I	
	Faculty Name & Designation	P.Chaithanya Assistant. Professor		

Web links

- W1: https://onlinecourses.swayam2.ac.in/nou24_cs09/preview
- W2: <https://nptel.ac.in/courses/106105191>
- W3: <https://www.w3schools.blog/jdbc-tutorial>
- W4: <https://www.w3schools.in/java/java-applets>
- W5: https://www.w3schools.com/xml/xml_services.asp

SELF STUDY TOPICS			
S.No	Topics	Books & Journals	Course Outcome

1	Html frames		
2	Object oriented programming		

CONTENT BEYOND THE SYLLABUS

S.No	Topics	Proposed Actions	Date	Resource Person/Module	Pos	PSOs
1	Creating a web page using php and java script					
2	Creation of website using server side scripting					



SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY, Sheriguda(V), R.R. Dist.
(An Autonomous Institution under UGC)

DEPARTMENT OF AI&DS

YEAR/SEMESTER: IIIYEAR/ISEM/ AIML
A.Y:2025-26 SUBJECT:(R22CSD3146) WEB PROGRAMMING



SRI INDU COLLEGE OF ENGG & TECHNOLOGY
 Sheriguda(V),R.RDist.(An Autonomous Institution Under UGC)

Department of Artificial Intelligence and Data Science

YEAR/SEMESTER: III YEAR / I SEM

ACADEMIC YEAR:2025-2026

SUBJECT CODE:R22CSD3146 SUBJECT NAME:WEB PROGRAMMING

ASSIGNMENT - I

Batch No.	Assignment Questions	Course outcome	BT Level	Register Number
1	Discuss in detail about the basics of HTML and structure of HTML	L2	CO1	
2	What is the World Wide Web (www)? Explain the evolution of www.	L3	CO1	
3	List and explain Java buzzwords. Which factors are making Java famous Language?	L2	CO2	
4	What are the different types of operators available in Java? Provide examples and explain their usage.	L1	CO2	
5	Describe JDBC with its architecture.	L2	CO3	
1	What is a uniform resource locator? Explain its importance.	L2	CO1	
2	Describe the differences between client-side and server-side scripting.	L4	CO1	
3	(i) What does it mean that a method or class is abstract? Can we make an instance of an abstract class? Explain it with example (ii) What is polymorphism in Java? Explain how polymorphism is supported in Java	L1	CO2	
4	Elaborate the inheritance and their types in Java with example coding.	L4	CO2	
5	What are the various database connectivity supported in Java?	L2	CO3	
1	Explain FTP and HTTP protocols.	L1	CO1	
2	What are style sheets? What are the components of a CSS Style?	L1	CO1	
3	a) Discuss constructor in java? Why constructor does not have return type in java? Explain it with proper example. b) Why so we need static members and how to access them? Explain it with clear example.	L2	CO2	
4	Give a brief note on built-in Objects in JavaScript with example.	L2	CO2	
5	a) What is JDBC? What are various drivers of JDBC? b) Explain about the database connectivity using JDBC.	L2	CO3	
1	Explain built in functions in JavaScript with program	L2	CO1	
2	Design a dynamic web page using HTML5 and JavaScript that responds to user inputs and performs real-time validation of forms.	L6	CO1	
3	a) What is Package? Give a detailed description for creation of packages in Java with an example b) List the different contexts in which the final keyword is used in Java program.	L1	CO2	
4	How to declare and initialize a string in java and also discuss the different string handling functions with suitable examples	L3	CO2	
5	Describe JDBC with its architecture.	L2	CO3	
1	Provide an example of a JavaScript function that manipulates the DOM to	L3	CO1	

2	Design a simple web page layout using HTML5 and CSS3 that includes a header, a navigation menu, a content area, and a footer.	L6	CO1	
3	Explain the concept of method overloading and method overriding in Java. Develop a Java program to demonstrate both and critically analyze the scenarios in which they can be used.	L4	CO2	
4	What is multithreading? In how many ways Java implements multi threading? Explain one of these ways with suitable example.	L3	CO2	
5	What are the various database connectivity supported in Java?	L2	CO3	
1	Create a simple HTML form with fields for name, email, and message. Use JavaScript to validate that all fields are filled before the form is submitted.	L3	CO1	
2	What is CSS? Describe various methods to include CSS in webpage.	L2	CO1	
3	Explain how exception handling mechanism has been implemented in Java. Also explain various types of checked and unchecked exceptions that may arise in Java with suitable examples.	L2	CO2	
4	Write a Java program that acts as a web server and transfer the HTML file requested by the browser client.	L2	CO 2	
5	a)What is JDBC? What are various drivers of JDBC? b) Explain about the database connectivity using JDBC.	L2	CO3	
1	Describe the Browser Object Model (BOM) in JavaScript. Discuss the properties and methods of the window object, including alert(), confirm(), prompt(), and setTimeout().	L3	CO1	
2	What are the advantages of CSS? Explain the external Style Sheet? How would you link to it?	L2	CO1	
3	Write a Java program that acts as a web server and transfer the HTML file requested by the browser client.	L2	CO 2	
4	i) Explain exceptions handling in Java with examples. ii) Explain string handling in Java with examples.	L3	CO2	
5	Describe JDBC with its architecture.			
1	What are the advantages of CSS? Explain the external Style Sheet? How would you link to it?	L2	CO1	
2	Explain various operators and data types available in java script.	L2	CO1	
3	a) Write a JAVA program which takes two integer numbers as input and returns the minimum of these two. b) How the JVM runs the java byte code? Discuss it with a diagram.	L3	CO2	
4	How to declare and initialize a string in java and also discuss the different string handling functions with suitable examples	L3	CO2	
5	What are the various database connectivity supported in Java?	L2	CO3	
1	Discuss in detail about the basics of HTML and structure of HTML	L2	CO1	
2	What is the World Wide Web (www)? Explain the evolution of www.	L3	CO1	
3	List and explain Java buzzwords. Which factors are making Java famous Language?	L2	CO2	
4	What are the different types of operators available in Java? Provide examples and explain their usage.	L1	CO2	
5	Describe JDBC with its architecture.	L2	CO3	

1	What is a uniform resource locator? Explain its importance.	L2	CO1	
2	Describe the differences between client-side and server-side scripting.	L4	CO1	
3	(i)What does it mean that a method or class is abstract? Can we make an instance of an abstract class? Explain it with example (ii)What is polymorphism in Java? Explain how polymorphism is supported in Java	L1	CO2	
4	Elaborate the inheritance and their types in Java with example coding.	L4	CO2	
5	What are the various database connectivity supported in Java?	L2	CO3	
1	Explain FTP and HTTP protocols.	L1	CO1	
2	What are style sheets? What are the components of a CSS Style?	L1	CO1	
3	a)Discuss constructor in java? Why constructor does not have return type in java? Explain it with proper example. b)Why so we need static members and how to access them? Explain it with clear example.	L2	CO2	
4	Give a brief note on built-in Objects in JavaScript with example.	L2	CO2	
5	a)What is JDBC? What are various drivers of JDBC? b) Explain about the database connectivity using JDBC.	L2	CO3	
1	Explain built in functions in JavaScript with program	L2	CO1	
2	Design a dynamic web page using HTML5 and JavaScript that responds to user inputs and performs real-time validation of forms.	L6	CO1	
3	a)What is Package? Give a detailed description for creation of packages in Java with an example b) List the different contexts in which the final keyword is used in Java program.	L1	CO2	
4	How to declare and initialize a string in java and also discuss the different string handling functions with suitable examples	L3	CO2	
5	Describe JDBC with its architecture.	L2	CO3	
1	Provide an example of a JavaScript function that manipulates the DOM to change the text content of an HTML element. Explain how this function works.	L3	CO1	
2	Design a simple web page layout using HTML5 and CSS3 that includes a header, a navigation menu, a content area, and a footer.	L6	CO1	
3	Explain the concept of method overloading and method overriding in Java. Develop a Java program to demonstrate both and critically analyze the scenarios in which they can be used.	L4	CO2	
4	What is multi threading? In how many ways Java implements multi threading? Explain one of these ways with suitable example.	L3	CO2	
5	What are the various database connectivity supported in Java?	L2	CO3	
1	Create a simple HTML form with fields for name, email, and message. Use JavaScript to validate that all fields are filled before the form is submitted.	L3	CO1	
2	What is CSS? Describe various methods to include CSS in web page.	L2	CO1	
3	Explain how Exception Handling mechanism has been implemented in Java. Also explain various types of checked and unchecked exceptions that may arise in Java with suitable examples.	L2	CO2	
4	Write a Java program that acts as a web server and transfer the HTML file requested by the browser client.	L2	CO2	
5	a)What is JDBC? What are various drivers of JDBC? b) Explain about the database connectivity using JDBC.	L2	CO3	

ASSIGNMENT - II

tch No.	Assignment Questions	Course outcome	BT Level	Register Number
1	Create the connection class using ODBC connectivity?	L1, L2	CO4	
2	(i)Describe in detail about the AWT Event classes. (ii)Describe about the various Event Listeners	L4	CO5	
3	(i) Explain the lifecycle of an applet. How will you pass parameters to an applet? (ii) Write a program using applet to print the area of various shapes rectangle, circle, and square using the concept of virtual function.	L2	CO5	
4	(i) List and explain the XML syntax rules in detail. (ii) Explain how a XML document can be displayed on a browser.	L2	CO6	
5	Give a brief note on XSL and XSLT.	L2	CO6	
1	Mention the purpose of using InetAddress class.	L5	CO4	
2	(i)With an example explain how parameters are passed to an applet (ii) Explain how Graphics class can be used in an applet	L2	CO5	
3	Discuss in detail about AWT event hierarchy?	L2	CO5	
4	(i)Describe in detail about XSL. (ii) What languages are used to represent data in web? Explain any two of them.	L6	CO6	
5	(i)With a simple example illustrate the steps to create a web service. (ii) Explain the SOAP elements in detail.	L4	CO6	
1	Mention the purpose of using URL class.	L2, L5	CO4	
2	(i)What is the function of layout manager? Describe in detail about the different layout in Java GUI (ii) With an example, define working with text in an applet.	L3	CO5	
3	(i)Explain the various Layout Managers in Java with neat diagram (ii) Write the Advantage of JSP over Servlets.	L1	CO5	
4	Summarize the role of XML schema in building web services in detail.	L3	CO6	
5	Briefly discuss how data types are represented in XML schema.?	L2	CO6	
1	Can the InetAddress class functionality to detect the IP Addresses, be handled using URL class? If yes, Explain?	L1	CO4	
2	(i)Discuss about servlet life cycle with example (ii) Discuss database connectivity with Servlet to display student marks.	L2	CO5	
3	Enlist the methods that can be used to handle the HTTP request	L4	CO5	
4	a) Describe with an example about the various web service technologies. b) Discuss JAX-RPC concept with suitable example.	L4	CO6	
5	(i)Explain WSDL structure and its elements. (ii) Develop a Java Web Service that would do arithmetic operations.	L6	CO6	

1	i) Explain the steps involved to create JDBC connectivity. List the advantages of JDBC. ii) Explain the various methods used in ResultSet interface.	L4	CO4	
2	Discuss in detail about the HttpServlet Class and its interface.	L2	CO5	
3	Explain about session tracking mechanism of a servlet.	L2	CO5	
4	Briefly discuss about XML and DTD. Write a DTD for employee details including employee name (first name and last name), employee ID, Date of Birth (month, date and year) and address (city and state)..	L4	CO6	
5	(i) Explain with an example about the various Web Service technologies. (ii) Write an example for default XML namespace and create the XSLT with font, color, size and bgcolor.	L2	CO6	
1	i) List the steps involved in developing Java Bean ii) Describe in detail about properties presented in java bean and its uses .	L2	CO4	
2	(i)What is HTTP? What are HTTP request and response? Give the limitations of HTTP (ii)Explain the lifecycle of servlet	L5	CO5	
3	What is Applet? Explain how the parameters are passed to an Applet with suitable example	L4	CO5	
4	Explain the following with suitable example. (i) UDDI (ii) WSDL	L5	CO6	
5	(i) Analogous to the calculator service, implement a simple SOAP Web Service. (ii) Write short notes on Java Web Services and its benefits.	L2	CO6	
1	i)What is a Java Bean? Write down the properties of a Java Bean in detail. ii) Write down the steps involved in establishing client-server communication using UDP.	L4	CO4	
2	Using AWT create a frame which contains four text fields name, age, sex and qualification layout using the flow layout manager. Run the program and give the values of all text fields in the command line. Initially all the values of text field should be blank. On clicking the click button all the text fields should contain the command line inputs.	L2	CO5	
3	(i)How do add images and sound files to an applet? Explain with an example. (ii)Highlight the features of JSP	L2	CO5	
4	Explain about creating and using of a Java web services.	L4	CO6	
5	Develop XML document that will hold player (like Cricket) collection with field for player-name, age, batting-average and highest-score. Write suitable document type definition and schema for the XML.	L4	CO6	
1	(i) Discuss in detail about the URL class. (ii) List out the classes and interfaces used in java.net package.	L3	CO4	
2	(i)How do add images and sound files to an applet? Explain with	L2	CO	

	an example. (ii)Highlight the features of JSP		5	
3	Explain with diagrammatic illustration the following: i) Life cycle of a servlet. ii) Life cycle of an applet.	L 5	C O 5	
4	Develop XML document that will hold player (like Cricket) collection with field for player-name, age, batting-average and highest-score. Write suitable document type definition and schema for the XML.	L4	C O6	
5	Write the case study of discovery and analysis of web usage patterns and explain the current trends.?	L2	C O 6	
1	Create the connection class using ODBC connectivity?	L1, L2	CO4	
2	(i)Describe in detail about the AWT Event classes. (ii)Describe about the various Event Listeners	L4		
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5	(i)With a simple example illustrate the steps to create a web service. (ii) Explain the SOAP elements in detail.	L4	CO6	
1	Mention the purpose of using URL class.	L2, L5	CO4	
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4	Summarize the role of XML schema in building web services in detail.	L3	CO6	
5	Briefly discuss how data types are represented in XML schema.?	L2	CO6	

1	Can the InetAddress class functionality to detect the IP Addresses, be handled using URL class? If yes, Explain?	L1	CO4	
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4	c) Describe with an example about the various web service technologies. d) Discuss JAX-RPC concept with suitable example.	L4	CO6	
5	(i) Explain WSDL structure and its elements. (ii) Develop a Java Web Service that would do arithmetic operations.	L6	CO6	
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1	i) Explain the steps involved to create JDBCconnectivity. List the advantages of JDBC. ii) Explain the various methods used in ResultSet interface.			
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3	What is Applet? Explain how the parameters are passed to an Applet with suitable example	L4	CO5	
4	Explain the following with suitable example. (i) UDDI (ii) WSDL	L5	CO6	
5	(i) Analogous to the calculator service, implement a simple SOAP Web Service. (ii) Write short notes on Java Web Services and its benefits.	L2	CO6	

	SRI INDU COLLEGE OF ENGG & TECH DEPARTMENT OF AI&DS		(Regulation:R22)
	Sub.Code & Title	(R22CSD3146)WEB PROGRAMMING	
	Academic Year: 2025-26	Year/Sem	III/I
	Faculty Name & Designation	P.Chaithanya, ASSISTANT PROFESSOR	

QUESTION BANK WITH BLOOMS TAXONOMY LEVEL (BTL)

(1.Remembering 2.Understanding 3.Applying 4.Analyzing 5.Evaluating 6.Creating)

UNIT-I :SCRIPTING			
	Multiple choice Questions	BTLevel	Course Outcome
1C-1	What is the preferred way for adding a background color in HTML? (A) <body background="yellow"> (B) <background>yellow</background>. (C) < body style="background-color:yellow"> (D) <background color="yellow">text<background>	L1	CO1
1C-2	What is the correct HTML for creating a hyperlink? (A) A. (B) <a>B. (C) example (D) example	L2	CO1
1C-3	How can you create an e-mail link? (A) <mail href="a@b"> (B) <mail>a@b</mail> (C) (D) 	L1	CO1
1C-4	How can you open a link in a new browser window? (A) (B) (C) (D) 	L2	CO1
1C-5	Which of the following is a semantic element in HTML5? A) <div> B) C) <article> D) <section>	L1	CO1
1C-6	Which of the following is a JavaScript data type? A) String B) Integer C) Character D) Decimal	L1	CO1
1C-7	Which is not a property of attribute Behaviour of <Marquee> tag? (A)Alternate (B) blur (C) scroll (D) slide	L2	CO1
1C-8	What is the purpose of the <canvas> element in HTML5? A) To embed a video B) To create animations and graphics C) To define metadata D) To include external scripts	L1	CO1
1C-10	What does the DOM stand for in web development? A) Data Object Model B) Document Object Model C) Document Output Model	L2	CO1

	D) Data Output Model		
1C-11	Which of the following JavaScript cannot do? (A) JavaScript can react to events (B) JavaScript can manipulate HTML elements are explicit relationships among records. (C) JavaScript can be use to validate data (D) All of the Above	L2	CO1
1C-12	What is the primary purpose of the console.log() method in JavaScript? A) To create a log file B) To display messages in the browser' s console C) To print output to the web page D) To send logs to a server	L2	CO1
1C-13	Which of the following is NOT a CSS selector? A) .className B) #idName C) *element D) element	L4	CO1
1C-14	Which HTML5 API allows for storing data in the browser? A) Web SQL B) Local Storage C) Cookie API D) File API	L2	CO1
1C-15	Which of the following options is correct with regard to HTML? (A) It is a modelling language (B) It is a scripting language (C) It is a partial programming language (D) It is used to structure documents	L4	CO1
1F-1	web is a collection of	L2	CO1
1F-2	is a simple language to design and develop web pages.	L2	CO1
1F-3	The world wide web consist of_____.	L1	CO1
1F-4	The < > element in HTML is used to create a table.	L2	CO1
1F-5	Web pages contain to other web pages.	L1	CO1
1F-6	Extension of a HTML file is.....	L1	CO1
1F-7	Predefined command in HTML is knows as.....	L1	CO1
1F-8	HTML is a.....language.	L4	CO1
1F-9	The _____method is used in JavaScript to convert a string into an integer.	L3	CO1
1F-10	The.....contains information about the document that will not appear on the actual page.	L4	CO1
1F-11	The tag must appear between the head tags.	L2	CO1
1F-12	The.....tags contain all the information and other visible content on the page.	L4	CO1
1F-13	To include an external JavaScript file in an HTML document, you use the <_____> tag with the src attribute.	L4	CO1
1F-14	The _____element in HTML5 is used to draw graphics on the fly via scripting.	L2	CO1
1F-15	To center-align text within an element using CSS, you use the property.	L2	CO1
1M-1	(1) World Wide Web (A) A collection of interlinked web (2) Webpage (B) Web (3) Web site (C) A simple text file created using HTML (4) Web Browser (D) A web browser is a software used to view web	L1	CO1

1M-2	1) Web Server 2) Uniform Resource Locator 3) Hyper Text Transfer Protocol 4) Hyper Text Markup Language	(A) A protocol used by WWW (B) An application or a computer that sends web pages (C) An address of a web page on the Internet (D) Enables to write code for a webpage	L4	CO1
1M-3	1) Container Tags 2) Empty tags 3) <!DOCTYPE html> 4) <header> declaration	(A) Defines a header (B) Paired tags (C) Standalone tags (D) A document type	L1	CO1
1M-4	1) <nav> 2) <Section> article 3) <article> 4) <aside>	(A) Defines a Container (B) Defines an independent self-contained article (C) Defines a section (D) Defines content apart from the Content	L1	CO1
1M-5	1) <footer> 2) <Details> manner 3) 4) <i>	(A) Defines Additional details (B) Displays text within it in italicized (C) Displays text within it in Bold (D) Defines a footer	L2	CO1
1D-1.	Discuss in detail about the basics of HTML and structure of HTML		L2	CO1
1D-2.	What is the World Wide Web (www)? Explain the evolution of www.		L3	CO1
1D-3.	What is a uniform resource locator? Explain its importance.		L2	CO1
1D-4.	Describe the differences between client-side and server-side scripting.		L4	CO1
1D-5.	Explain FTP and HTTP protocols.		L1	CO1
1D-6.	What are style sheets? What are the components of a CSS Style?		L1	CO1
1D-7.	Explain built in functions in JavaScript with program		L3	CO1
1D-8	Design a dynamic webpage using HTML5 and JavaScript that responds to user inputs and performs real-time validation of forms.		L6	CO1
1D-9	Provide an example of a JavaScript function that manipulates the DOM to change the text content of an HTML element. Explain how this function works.		L3	CO1
1D-10	Design a simple web page layout using HTML5 and CSS3 that includes a header, a navigation menu, a content area, and a footer.		L6	CO1
1D-11	Create a simple HTML form with fields for name, email, and message. Use JavaScript to validate that all fields are filled before the form is submitted.		L3	CO1
1D-12	What is CSS? Describe various methods to include CSS in webpage.		L2	CO1
1D-13	Describe the Browser Object Model (BOM) in JavaScript. Discuss the properties and methods of the window object, including <code>alert()</code> , <code>confirm()</code> , <code>prompt()</code> , and <code>setTimeout()</code> .		L3	CO1
1D-14	What are the advantages of CSS? Explain the external Style Sheet? How would you link to it?		L2	CO1
1D-15	Explain various operators and data types available in java script.		L2	CO1

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UNIT-II:JAVA			
	Multiple choice Questions	BTLevel	Course Outcome
2C-1	Who invented Java Programming? a) Guido van Rossum b) James Gosling c) Dennis Ritchie d) Bjarne Stroustrup	L1	CO2
2C-2	Which statement is true about Java? a) Java is a sequence-dependent programming language b) Java is a code dependent programming language c) Java is a platform-dependent programming language d) Java is a platform independent programming language	L1	CO2
2C-3	Which component is used to compile, debug and execute the java programs? a) JRE b) JIT c) JDK d) JVM	L4	CO2
2C-4	Which one of the following is not a Java feature? a) Object-oriented b) Use of pointers c) Portable d) Dynamic and Extensible	L3	CO2
2C-5	Which of these cannot be used for a variable name in Java? (A) a) identifier & keyword b) identifier (B) c) keyword d) none of the mentioned	L1	CO2
2C-6	What is the extension of java code files? a) .js b) .txt c) .class d) .java	L2	CO2
2C-7	- What will be the output of the following Java code? 1. class increment { 2. public static void main(String args[]) 3. { 4. int g = 3; 5. System.out.print(++g * 8); 6. } 7. } a) 32 b) 33 c) 24 d) 25	L1	CO2
2C-8	What does the super keyword do in Java? A) Calls a method in the superclass B) Creates a new instance of a class C) Refers to the current object D) Handles exceptions	L2	CO2
2C-9	Which of the following package is used for text formatting in Java programming language? a) java.io b) java.awt.text c) java.awt d) java.text	L2	CO2
2C-10	Which of the following is not a segment of memory in java?	L4	CO2

	a) Code Segment c) Stack Segment	b) Register Segment d) Heap Segment		
2C-11	What is the extension of compiled java classes? a) .txt b) .js c) .class d).java		L2	CO2
2C-12	What is the purpose of a constructor in Java? A) To initialize an object B) To create a static method C) To define an abstract class D) To handle exceptions		L1	CO2
2C-13	What is the default value of a boolean variable in Java? A) true B) false C) 0 D) null		L2	CO2
2C-14	In java control statements break, continue, return, try-catch-finally and assert belongs to? A).Selection statements B).Loop Statements C).Transfer statements D).Pause Statement		L2	CO2
2C-15	Which of the following option leads to the portability and security of Java? a.Bytecode is executed by JVM b. The applet makes the Java code secure and portable c. Use of exception handling d.Dynamic binding between objects		L2	CO2
Fill in the blanks				
2F-1	In Java, the _____ keyword is used to declare a class.		L1	CO2
2F-2	In Java, an abstract class can have both _____and _____ methods.		L2	CO2
2F-3	_____method of the Class.class is used to determine the name of a class represented by the class object as a String.		L2	CO2
2F-4	_____package contains the Random class.		L2	CO2
2F-5	An interface with no fields or methods is known as a _____.		L1	CO2
2F-6	The _____method in the Object class is used to obtain a string representation of an object.		L2	CO2
2F-7	Chained exceptions in Java are also called as_____		L2	CO2
2F-8	_____keyword is used for accessing the features of a package		L1	CO2
2F-9	_____leads to the portability and security of Java		L1	CO2
2F-10	_____is a process, a local variable has the same name as one of the instance variables		L4	CO2
2F-11	_____is the Class.class is used to determine the name of a class represented by the class object as a String		L4	CO2
2F-12	A _____is a special method used to initialize objects when they are created.		L1	CO2
2F-13	To handle exceptions in Java, you use the _____, _____, and _____ keywords.		L3	CO2
2F-14	In Java, int is a _____type.		L1	CO2
2F-15	In Java, a method that has the same name as the class and no return type is called a _____.		L1	CO2
Match the following				
2M-1	a)Java 1) is a tool for debugging java program b) Javah 2) is a tool for creating C-like header files c) Javap 3) runs java bytecode d) jdb 4) prints java code representation		L2	CO2

2M-2	1. Encapsulation a. Supports multiple inheritance by implementing methods from multiple interfaces 2. Inheritance b. Protects the data within an object and provides methods to access it 3. Polymorphism c. Ability to redefine a method in a derived class 4. Exception Handling d. Code that is designed to handle runtime errors 5. ArrayList e. A collection class that dynamically resizes	L1	CO2
2M-3	1) Pattern Class (A)Used for performing match operations 2) Matcher Class (B) Used for indicating syntax error in a regular expression pattern 3)PatternSyntaxException Class (C) Used for defining patterns 4) MatchResult Interface (D) Used for representing the result of a match operation	L1	CO2
2M-4	1.try block a. Used to declare a class that can' t be instantiated 2.Interface b. Used to specify a block of code that might throw an exception 3.File class c. Provides methods for file operations like reading and writing 4.StringBuilder d. A mutable sequence of characters 5.Super keyword e. Refers to the parent class' s method or constructor	L1	CO2
2M-5	1).matches(String regex, CharSequence input) A).It is used to return the regular expression from which this pattern was compiled 2. pattern() B).It is used to compile the given regular expression and attempts to match the given input against it.. 3. quote(String s) C).It is used to split the given input sequence around matches of this pattern. 4.. split(CharSequence input) D).It is used to return a literal pattern String for the specified String.	L1	CO2
5-MARKS QUESTIONS			
2D-1.	List and explain Java buzzwords. Which factors are making Java famous Language?	L2	CO2
2D-2.	What are the different types of operators available in Java? Provide examples and explain their usage.	L1	CO2
2D-3.	(i)What does it mean that a method or class is abstract? Can we make an instance of an abstract class? Explain it with example (ii)What is polymorphism in Java? Explain how polymorphism is supported in Java	L1	CO2
2D-4.	Elaborate the inheritance and their types in Java with example coding.	L4	CO2
2D-5.	a)Discuss constructor in java? Why constructor does not have return type in java? Explain it with proper example. b)Why so we need static members and how to access them? Explain it with clear example.	L2	CO2
2D-6.	Evaluate the performance implications of using different types of loops (for, while, do-while) in Java. When might one type of loop be preferred over another?	L5	CO2
2D-7.	a)What is Package? Give a detailed description for creation of packages in Java with an example b) List the different contexts in which the final keyword is used in Java program.	L1	CO2
2D-8	a) Write a JAVA program which takes two integer numbers as input and returns the minimum of these two. b) How the JVM runs the java byte code? Discuss it with a diagram.	L3	CO2
2D-9	How to declare and initialize a string in java and also discuss the different string handling functions with suitable examples	L3	CO2
2D-10	Explain the concept of method overloading and method overriding in Java. Develop a Java program to demonstrate both and critically analyze the scenarios in which they can be used.	L4	CO2
2D-11	a) Briefly explain interface? Write a Java program to illustrate the use of an interface.	L6	CO2

	b) Explain about packages. Give an example program which uses packages.		
2D-12	What is multithreading? In how many ways Java implements multithreading?	L3	CO2
2D-13	Explain how exception handling mechanism has been implemented in Java. Also explain various types of checked and unchecked exceptions that may arise in Java with suitable examples.	L2	CO2
2D-14	Write a Java program that acts as a web server and transfer the HTML file requested by the browser client.	L2	CO2
2D-15	i) Explain exceptions handling in Java with examples. ii) Explain string handling in Java with examples.	L3	CO2

	SRI INDU COLLEGE OF ENGG & TECH DEPARTMENT OF AI&DS		(Regulation:R22)
	Sub.Code & Title	(R22CSD3146)WEB PROGRAMMING	
	Academic Year: 2025-26	Year/Sem	III/I
	Faculty Name & Designation	P.Chaithanya, ASSISTANT PROFESSOR	

UNIT III - JDBC			
	Multiple choice Questions	BTLevel	Course Outcome
3C-1	What are the major components of the JDBC? a. DriverManager, Driver, Connection, Statement, and ResultSet b. DriverManager, Driver, Connection, and Statement c. DriverManager, Statement, and ResultSet d. DriverManager, Connection, Statement, and ResultSet	L2	CO3
3C-2	Select the packages in which JDBC classes are defined? a. jdbc and javax.jdbc b. rdb and javax.rdb c. jdbc and java.jdbc.sql d. sql and javax.sql	L2	CO3
3C-3	Thin driver is also known as? a. Type 3 Driver b. Type-2 Driver c. Type-4 Driver d. Type-1 Driver	L4	CO3
3C-4	What is the correct sequence to create a database connection? i. Import JDBC packages. ii. Open a connection to the database. iii. Load and register the JDBC driver. iv. Execute the statement object and return a query resultset. v. Create a statement object to perform a query. vi. Close the resultset and statement objects. vii. Process the resultset. viii. Close the connection. a. i, ii, iii, v, iv, vii, viii, vi b. i, iii, ii, v, iv, vii, vi, viii c. ii, i, iii, iv, viii, vii, v, vi d. i, iii, ii, iv, v, vi, vii, viii	L2	CO3

3C-5	Which of the following method is used to perform DML statements in JDBC? a. executeResult() b. executeQuery() c. executeUpdate() d. execute	L4	CO3
3C-6	How many transaction isolation levels provide the JDBC through the Connection interface? a. 3 b. 4 c. 7 d. 2	L1	CO3
3C-7	Which of the following method is static and synchronized in JDBC API? a. getConnection() b. prepareCall() c. executeUpdate() d. executeQuery()	L2	CO3
3C-8	Which methods are required to load a database driver in JDBC? a) getConnection() b) registerDriver() c) forName() d) Both b and c	L4	CO3
3C-9	Which of the following is not a valid statement in JDBC? a. Statement b. PreparedStatement c. QueryStatement d. CallableStatement	L4	CO4
3C10	Identify the isolation level that prevents the dirty in the JDBC Connection class? a. TRANSACTION_READABLE_READ b. TRANSACTION_READ_COMMITTED c. TRANSACTION_READ_UNCOMMITTED d. TRANSACTION_NONEs	L4	CO4
3C-11	Which JDBC driver can be used in servlet and applet both? a. Type 3 b. Type 4 c. Type 3 and Type 2 d. Type 3 and Type 4	L2	CO3
3C-12	JDBC-ODBC driver is also known as? a. Type 4 b. Type 3 c. Type 1 d. Type 2	L2	CO4
3C-13	Which of the following is not a type of ResultSet object? a.TYPE_FORWARD_ONLY b.CONCUR_WRITE_ONLY c.TYPE_SCROLL_INSENSITIVE d.TYPE_SCROLL_SENSITIVE	L4	CO4
3C-14	a) Which of these package contains classes and interfaces for networking? b) A. java.io c) B. java.util d) C. java.net e) D. javax.swing	L2	CO4

3C-15	a) Which of the following protocol follows connection less service? b) A. TCP c) B. TCP/IP d) C. UDP e) D. HTTP	L3	CO4
Fill in the blanks			
3F-1	_____are the major components of the JDBC.	L3	CO 3
3F-2	_____are the packages in which JDBC classes are defined.	L2	CO 3
3F-3	Thin driver is also known as_____	L2	CO 3
3F-4	_____method is used to perform DML statements in JDBC	L2	CO 3
3F-5	_____transaction isolation levels provide the JDBC through the Connection interface	L2	CO 3
3F-6	_____method is static and synchronized in JDBC API	L3	CO 3
3F-7	_____methods are required to load a database driver in JDBC	L4	CO 3
3F-8	Parameterized queries can be executed by_____	L2	CO4
3F-9	_____is not a valid statement in JDBC	L1	CO 4
3F-10	set Auto Commit(false) does_____	L3	CO 4
3F-11	Stored procedure can be called by using the_____.	L6	CO 4
3F-12	A good way to debug JDBC-related problems is to enable_____	L3	CO 4
3F-13	_____JDBC driver can be used in servlet and applet both	L2	CO 4
3F-14	JDBC-ODBC driver is also known as_____	L4	CO 4
3F-15	_____driver is the fastest one.	L1	CO 4
Match the following			
3M-1	1. JDBC-ODBC a. partially java driver 2. Native-API driver b. bridge driver 3. Network Protocol driver c. fully java driver 4. Thin driver d. fully java driver	L2	CO 3

3M-2	1) JDBC (A) Open Data Base Connectivity Driver 2) JDBC API (B) Java Data Base Connectivity Driver 3) ODBC driver Interface (C) Java Data Base Connectivity Application Programming 4) JDBC driver (D) Java Data Base Connectivity	L1	CO 3
3M-3	1) DriverManager a) The database communications link, handling all communication with the database. 2) Driver b) Manages a list of database drivers 3) Connection: c) Encapsulates an SQL statement which is passed to the database to be parsed, compiled, planned, and executed. 4) Statement d) Interface with all methods for contacting a database.	L1	CO 4
3M-4	1) Statement: a) It represents the pre-compiled SQL statements that can be executed multiple times. 2) Prepared Statement: b) Use this for general-purpose access to your database. It is useful when we are using static SQL statements at runtime. The Statement interface cannot accept parameters. 3) Callable Statement: c) It is not supported by JDBC. 4) Query Statement: d) It is used to execute SQL stored procedures.	L1	CO4
3M-5	1) TYPE_FORWARD_ONLY a) The cursor can move forward and backward, and the result set is not sensitive to changes made by others to the database after the result set was created 2) TYPE_SCROLL_INSENSITIVE: b). This is the default type and the cursor can only move forward in the result set. 3) TYPE_SCROLL_SENSITIVE: c) The cursor can move forward and backward, and the result set is sensitive to changes made by others to the database after the result set was created. 4) CONCUR_READ_ONLY: d) We can use the ResultSet update method to update the rows data 5) CONCUR_UPDATABLE: e). The ResultSet is read-only, this is the default concurrency type	L1	CO4
5-MARKS QUESTIONS			
3D-1.	Describe JDBC with its architecture.	L2	CO3
3D-2.	What are the various database connectivity supported in Java?	L2	CO3

3D-3.	a)What is JDBC? What are various drivers of JDBC? b) Explain about the database connectivity using JDBC.	L2	CO3
3D-4.	What is the difference between Statement and Prepared Statement interface?	L1,4	CO3
3D-5.	How JDBC API does helps us in achieving loose coupling between Java Program and JDBC Drivers API?	L2	CO3
3D-6.	How can you create JDBC statements? Illustrate?.	L2	CO3
3D-7.	Describe the Callable Statement in JDBC?	L2	CO3
3D-8	Create the connection class using ODBC connectivity?	L1, L2	CO4
3D-9	Mention the purpose of using InetAddress class.	L5	CO4
3D-10	Mention the purpose of using URL class.	L2, L5	CO4
3D-11	Can the InetAddress class functionality to detect the IP Addresses, be handled using URL class? If yes, Explain?	L1	CO4
3D-12	i) Explain the steps involved to create JDBC connectivity. List the advantages of JDBC. ii) Explain the various methods used in Result Set interface.	L4	CO4
3D-13	i) List the steps involved in developing Java Bean ii) Describe in detail about properties presented in java bean and its uses .	L2	CO4
3D-14	i)What is a Java Bean? Write down the properties of a Java Bean in detail. ii) Write down the steps involved in establishing client-server communication using UDP.	L4	CO4
3D-15	(i) Discuss in detail about the URL class. (ii) List out the classes and interfaces used in java.net package.	L3	CO4

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UNIT-4 APPLET			
OBJECTIVETYPEQUESTIONS		BT Level	Course Outcome
4C-1	Which of these functions is called to display the output of an applet? a) display() b) paint() c) displayApplet() d) PrintApplet()	L1	CO5
4C-2	Which of these methods can be used to output a string in an applet? a) display() b) print() c) drawString() d) transient()	L2	CO5
4C-3	Which of these methods is a part of Abstract Window Toolkit (AWT) ? a) display() b) paint() c) drawString() d) transient()	L3	CO5
4C-4	Which of these modifiers can be used for a variable so that it can be accessed from any thread or parts of a program? a) transient b) volatile c) global d) No modifier is needed	L2	CO5
4C-5	Which of these operators can be used to get run time information about an object? a) getInfo b) Info c) instanceof d) getinfoof	L1	CO5

4C-6	What is the Message is displayed in the applet made by the following Java program? <pre> 1. import java.awt.*; 2. import java.applet.*; 3. public class myapplet extends Applet 4. { 5. public void paint(Graphics g) 6. { 7. g.drawString("A Simple Applet", 20, 20); 8. } 9. } a) A Simple Applet b) A Simple Applet 20 20 c) Compilation Error d) Runtime Error </pre>	L3	CO5
4C-7	What is the length of the application box made by the following Java program? <pre> 1. import java.awt.*; 2. import java.applet.*; 3. public class myapplet extends Applet 4. { 5. public void paint(Graphics g) 6. { 7. g.drawString("A Simple Applet", 20, 20); 8. } 9. } a) 20 b) 50 c) 100 d) System dependent </pre>	L3	CO5
4C-8	What is the length of the application box made the following Java program? <pre> 1. import java.awt.*; 2. import java.applet.*; 3. public class myapplet extends Applet 4. { 5. Graphic g; 6. g. drawString("A Simple Applet", 20, 20); 7. } a) 20 b) Default value c) Compilation Error d) Runtime Error </pre>	L4	CO5
4C-9	Which of the following do not supports JSP directly? A – Web logic Server B – Web Sphere Server C - Tomcat Server D - Apache HTTP Server	L2	CO5
4C-10	Which of the following is true about language attribute? A - The language attribute indicates the programming language used in scripting the servlet. B - The language attribute indicates the programming language used in scripting the html page. C - The language attribute indicates the programming language used in scripting the JSP page. D - None of the above.	L4	CO5
4C-11	Which of the following is true about import Attribute? A - The import attribute serves the same function as, and behaves like, the Java import statement. B - The value for the import option is the name of the package you want to import. C - Both of the above. D - None of the above.	L5	CO5

4C-12	Which of the following is true about is EL Ignored Attribute? A - The is EL Ignored option gives you the ability to disable the evaluation of Expression Language (EL) expressions. B - The default value of the is EL Ignored attribute is true. C - Both of the above. D - None of the above.	L2	CO5
4C-13	Which of the following is true about <jsp: forward>action? A - The forward action terminates the action of the current page. B - The forward action forwards the request to another resource such as a static page, another JSP page, or a Java Servlet. C - Both of the above. D - None of the above.	L2	CO5
4C-14	Which of the following is true about locale? A - This is a particular cultural or geographical region. B - Locale is usually referred to as a language symbol followed by a country symbol which are separated by an underscore. C - Both of the above. D - None of the above.	L2	CO5
4C-15	Which of the following is true about <c:choose> tag? A – The <c:choose> works like a Java switch statement in that it lets you choose between a number of alternatives. B – The <c:choose> tag has tags. C - The <c:choose> tag has as default clause. D - All of the above.	L4	CO5
	FILLIN THE BLANKS ½ MARK QUESTIONS	BT Level	Course Outcome
4F-1	_____ functions is called to display the output of an applet	L2	CO5
4F-2	_____ methods can be used to output a string in an applet.	L3	CO5
4F-3	The _____ enables you to manage the Java Web Start programs on your system.	L4	CO5
4F-4	Java applets begin execution with a series of three method calls: _____, _____ and _____.	L4	CO5
4F-5	The _____ method is invoked for an applet each time a browser' s user leaves an HTML page on which the applet resides.	L2	CO5
4F-6	Every applet should extend class _____.	L2	CO5
4F-7	The _____ method is called each time the user of a browser revisits the HTML page on which an applet resides..	L4	CO5
4F-8	_____ The _____ or a browser can be used to execute a Java applet.	L2	CO5
4F-9	To load an applet into a browser, you must first define a(n) _____ file.	L2	CO5
4F-10	Method _____ is called once when an applet begins execution.	L2	CO5

4F-11	Method _____ is invoked to draw on an applet.	L4	CO5
4F-12	Method _____ is invoked for an applet when the browser removes it from memory.	L3	CO5
4F-13	The _____ and _____ HTML tags specify that an applet should be loaded into an applet container and executed.	L3	CO5
4F-14	_____ is a framework for running downloaded programs outside the browser.	L2	CO5
4F-15	A(n) _____ document provides the information that Java Web Start needs to download and run a program..	L3	CO5
MATCH THE FOLLOWING 1 MARK QUESTIONS		BTLevel	Course Outcome
4M-1	1. EMBED tag a) Use to deploy applets to a multi browser environment. 2. APPLET tag b) Use to deploy applets that are to be used only with the Mozilla family of browsers 3. OBJECT tag c) Use to deploy applets that are to be used only with Internet Explorer	L2	CO5
4M-2	(1) start() method – a) Can be called when the applet is minimized or refreshed. (2) paint() method – b) Can be called each time an applet is started. (3) stop() method – c) Can be called when the browser is finished with the applet (4) destroy() method – d). Can be called when the browser moves off the applet's page.	L2	CO5
4M-3	(1) Language support package (lang) (A) Collection of classes to provide utility functions such as date and time functions (2) Utility package (util) (B) A collection of classes required for input/output manipulation (3) Input output package (io) (C) Collection of classes that allows us to create java applets. (4) Networking package (net) (D) It includes classes and methods required for implementing basic feature of Java. (5) Abstract Window toolkit package (awt) (E) Collection of classes for communicating with other computers via internet. (6) Applet package (applet) (F) Collection of classes that implements Platform independent Graphical User Interface	L2	CO5
4M-4	(1) Concat() a) insert() (2) Equals() b) setCharAt() (3) Replace() c) append()	L2	CO5
4M-5	1. Newborn state a) thread is ready for execution 2. Runnable state b) thread is born 3. Running state c) thread ends its life 4. Blocked state d) thread for its execution 5. Dead state e) thread is suspended	L2	CO5

PART-B

5 MARKS QUESTIONS

4D-1	(i) Describe in detail about the AWT Event classes. (ii) Describe about the various Event Listeners	L4	CO5
4D-2	(i) Explain the lifecycle of an applet. How will you pass parameters to an applet? (ii) Write a program using applet to print the area of various shapes rectangle, circle, and square using the concept of virtual function.	L2	CO5
4D-3	(i) With an example explain how parameters are passed to an applet (ii) Explain how Graphics class can be used in an applet	L2	CO5
4D-4	Discuss in detail about AWT event hierarchy?	L2	CO5
4D-5	(i) What is the function of layout manager? Describe in detail about the different layout in Java GUI (ii) With an example, define working with text in an applet.	L3	CO5
4D-6	(i) Explain the various Layout Managers in Java with neat diagram (ii) Write the Advantage of JSP over Servlets.	L1	CO5
4D-7	(i) Discuss about servlet life cycle with example (ii) Discuss database connectivity with Servlet to display student marks.	L2	CO5
4D-8	Enlist the methods that can be used to handle the HTTP request	L4	CO5
4D-9	Discuss in detail about the HttpServlet Class and its interface.	L2	CO5
4D-10	Explain about session tracking mechanism of a servlet.	L2	CO5
4D-11	(i) What is HTTP? What are HTTP request and response? Give the limitations of HTTP (ii) Explain the lifecycle of servlet	L5	CO5
4D-12	What is Applet? Explain how the parameters are passed to an Applet with suitable example	L4	CO5
4D-13	Using AWT create a frame which contains four text fields name, age, sex and qualification layout using the flow layout manager. Run the program and give the values of all text fields in the command line. Initially all the values of text field should be blank. On clicking the click button all the text fields should contain the command line inputs.	L2	CO5
4D-14	(i) How do add images and sound files to an applet? Explain with an example. (ii) Highlight the features of JSP	L2	CO5
4D-15	Explain with diagrammatic illustration the following: iii) Life cycle of a servlet. iv) Life cycle of an applet.	L5	CO5

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	Faculty Name & Designation	P.Chaithanya, ASSISTANT PROFESSOR	

OBJECTIVETYPEQUESTIONS ½MARKQUESTIONS		BT Level	Course Outcom e
5C-1	1. What Does XML Stand For? a)EXtra Modern Link b)EXtensible Markup Language c)Example Markup Language d)X-Markup Language	L2	CO6
5C-2	Which Statement Is True? a)All XML Elements Must Have A Closing Tag b)All XML Documents Must Have A DTD c)All XML Elements Must Be Lower Case d)All The Statements Are True	L3	CO6
5C-3	Which Of The Following Programs Support XML Or XML Applications? a)Netscape 4.7 b)Internet Explorer 5.5 c)RealPlayer d)Both A & B	L1	CO6
5C-4	Which Of The Following Strings Are A Correct XML Name? a)#myElement b)My Element c)_myElement d)None Of The Above	L3	CO6
5C-5	Which Allows Hyperlinks To Point To Specific Parts (fragments) Of XML Documents? a)XPath b)Xpointer c)XSLT d)XLink	L1	CO6
5C-6	Which Is Not A XML Function? a)Transport Information b)Style Information c)Store Information d)Structure Information	L4	CO6
5C-7	Which Is Not A W3C-recommended Specification? a)SAX b)DOM c)Both A & B d) None Of The Above	L1	CO6
5C-8	Which Internet Language Is Used For Describing Available Web Services In XML? a)RSS b)RDF c)WSDL d)OWL	L1	CO6
5C-9	XML Is Designed To Store Data And _____. a)Design b)Verify c)Both A & B d)Transport	L1	CO6

5C-10	In Schema Data Type Can Be Specified Using a)Type b)DataType c)Dt:type d)Data:type	L3	CO6
5C-11	Which Is/are The Example(s) Of XML-based Multimedia Language? a)SMIL b)MULTIMEDIA DESCRIPTION LANGUAGE c)HTML+TIME d)Both A & B	L2	CO6
5C-12	Which Vocabulary Provides Supports To Build Links Into XML? a)XLink b)XPointer c)XSL d)XHTML	L2	CO6
5C-13	Which Language Is Case Sensitive? a)HTML b)XML c)None Of The Above d)Both A & B	L1	CO6
5C-14	The XSL formatting object which formats the data in a table - a)table-body b)table c)table-content d)title	L1	CO6
5C-15	XSL has “ block container” for forming the document to - a)Create a display block to format the paragraphs b)Create a display block to format the titles c)Create a block level reference area d)Create a display block to format the titles	L3	CO6

	FILL IN THE BLANKS ½ MARK QUESTIONS	BT Level	Course Outcome
5F-1	DTD stand for _____	L2	CO6
5F-2	The implementation of files of fixed length records is simpler than that of files of	L1	CO6
5F-3	An xml database supports the storage and management of _____ xml data.	L1	CO6
5F-4	NCName stands for _____	L2	CO6
5F-5	_____ is a valid XSLT iteration command.	L2	CO6
5F-6	XSL formatting object which formats the data in a table is _____	L3	CO6
5F-7	_____ language Is Case Sensitive.	L6	CO6
5F-8	.DTD is used along with xml to specify. _____	L2	CO6
5F-9	XML was not designed to _____	L2	CO6

5F-10	XML was designed to _____ and _____ data.	L1	CO6
5F-11	A root element is a _____ of all other elements	L1	CO6
5F-12	Html and xml are _____ languages.	L6	CO6
5F-13	We need an _____ to create and edit an xml document.	L4	CO6
5F-14	In an xml document, _____ element is the parent of all other elements	L1	CO6
5F-15	_____ is used to describe data and _____ is used to display data.	L1	CO6
	MATCHTHEFOLLOWING 1MARKQUESTIONS	BTLevel	Course Outcome
5C-1	1.XML 2.DTD 3.XSD 4.HTML a.DocumentType Definition b.Extensible MarkupLanguage c)Hyper Text markup Language d)XML Schema Definition	1	CO6
5C-2	(1) SOAP Transformations (2) UDDI (3) WSDL Integration (4) XSLT a) eXtensible Stylesheet Language b) Simple Object Access Protocol c) Universal Description, Discovery, and d) Web Services Description Language	2	CO6
5C-3	1)JSP 2)CGI 3)API 4)GUI a) Common Gateway Interface b)Java Servlet Pages c)Application Programming Interface d)Graphical User Interface	1	CO6
5C-4	1.JDBC 2.JNDI 3.EJB 4.JAXP a) Java Naming and Directory Interface API. b) Java Database Connectivity c) Java API for XML Processing d) Enterprise Java Bean	1	CO6
5C-5	1.ASP 2.SSI 3.Pure Servlets 4. Java Script a) Server-Side Includes b) Active Server Pages c) Database access and image processing d) Println statements that generate the HTML.	2	CO6

PARTB			
5MARKSQUESTIONS			
5C-1	(i) List and explain the XML syntax rules in detail. (ii) Explain how a XML document can be displayed on a browser.	L2	CO6
5C-2	Give a brief note on XSL and XSLT.	L2	CO6
5C-3	(i)Describe in detail about XSL. (ii) What languages are used to represent data in web? Explain any two of them.	L6	CO6
5C-4	(i)With a simple example illustrate the steps to create a web service. (ii) Explain the SOAP elements in detail.	L4	CO6

5C-5	Summarize the role of XML schema in building web services in detail.	L3	CO6
5C-6	Briefly discuss how data types are represented in XML schema.?	L2	CO6
5C-7	e) Describe with an example about the various web service technologies. f) Discuss JAX-RPC concept with suitable example.	L4	CO6
5C-8	(i) Explain WSDL structure and its elements. (ii) Develop a Java Web Service that would do arithmetic operations.	L6	CO6
5C-9	Briefly discuss about XML and DTD. Write a DTD for employee details including employee name (first name and last name), employee ID, Date of Birth (month, date and year) and address (city and state)..	L4	CO6
5C-10	(i) Explain with an example about the various Web Service technologies. (ii) Write an example for default XML namespace and create the XSLT with font, color, size and bgcolor.	L2	CO6
5C-11	Explain the following with suitable example. (i) UDDI (ii) WSDL	L5	CO6
5C-12	(i) Analogous to the calculator service, implement a simple SOAP Web Service. (ii) Write short notes on Java Web Services and its benefits.	L2	CO6
5C-13	Explain about creating and using of a Java web services.	L4	CO6
5C-14	Develop XML document that will hold player (like Cricket) collection with field for player-name, age, batting-average and highest-score. Write suitable document type definition and schema for the XML.	L4	CO6
5C-15	Write the case study of discovery and analysis of web usage patterns and explain the current trends.?	L2	CO6

Model papers

BR-22

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
III B.Tech - I Semester - I Mid Term Examination, SEP/OCT - 2024
(R22CSD3146) WEB PROGRAMMING
(For DS, AIDS & AIML)
Dt: 01-10-2024, Day-2 (AN)

D4

Duration: 2 Hrs

Part - A

Max Marks: 30M

Answer All multiple choice questions.

Marks: 10Qx1/2M = 5M

* (L1-Remembering, L2-Understanding, L3-Applying, L4-Analyzing, L5-Evaluating, and L6-Creating.)

* Blooms
Taxonomy
LevelsCourse
Outcomes

- | | | | |
|--|-----|-----|-----|
| 1. How can you create an e-mail link? | [] | I | CO1 |
| A) <mail href="a@b"> B) <mail>a@b</mail> | | | |
| C) D) | | | |
| 2. Which of the following is a semantic element in HTML5? | [] | I | CO1 |
| A) <div> B) C) <article> D) <section> | | | |
| 3. Which is not a property of attribute Behaviour of <Marquee> tag? | [] | II | CO1 |
| A) Alternate B) blur C) scroll D) slide | | | |
| 4. Which HTML5 API allows for storing data in the browser? | [] | II | CO1 |
| A) Web SQL B) Local Storage C) Cookie API D) File API | | | |
| 5. Which of the following is NOT a CSS selector? | [] | IV | CO1 |
| A) .class Name B) #id Name C) *element D) element | | | |
| 6. Which one of the following is not a Java feature? | [] | III | CO2 |
| A) Object-oriented B) Use of pointers | | | |
| C) Portable D) Dynamic and Extensible | | | |
| 7. What does the super keyword do in Java? | [] | II | CO2 |
| A) Calls a method in the superclass B) Creates a new instance of a class | | | |
| C) Refers to the current object D) Handles exceptions | | | |
| 8. What is the default value of a boolean variable in Java? | [] | II | CO2 |
| A) true B) false C) 0 D) null | | | |
| 9. In java control statements break, continue, return, try-catch-finally and assert belongs to _____ | [] | II | CO2 |
| A) Selection statements B) Loop Statements | | | |
| C) Transfer statements D) Pause Statement | | | |
| 10. Thin driver is also known as _____ | [] | IV | CO3 |
| A) Type 3 Driver B) Type-2 Driver C) Type-4 Driver D) Type-1 Driver | | | |

[Type text]

Marks: 6Qx1/2M = 3M

Answer All fill in the blank questions.

11. The <_____> element in HTML is used to create a table.
12. The _____ method is used in JavaScript to convert a string into an integer.
13. The _____ contains information about the document that will not appear on the actual page.
14. The _____ method in the Object class is used to obtain a string representation of an object.
15. A _____ is a special method used to initialize objects when they are created.
16. _____ are the packages in which JDBC classes are defined.

II CO1
 III CO1
 IV CO1
 II CO2
 I CO2
 II CO3

Marks: 2Qx1M = 2M

Answer All Match the following questions

17.	1.	<footer>	A.	Defines Additional details
	2.	<Details>	B.	Displays text within it in italicized manner
	3.		C.	Displays text within it in Bold
	4.	<i>	D.	Defines a footer

II CO1

18.	1.	try block	A.	Used to declare a class that can't be instantiated
	2.	Interface	B.	Used to specify a block of code that might throw an exception
	3.	File class	C.	Provides methods for file operations like reading and writing
	4.	String Builder	D.	A mutable sequence of characters
	5.	Super keyword	E.	Refers to the parent class's method or constructor

III CO2

Part – BAnswer any **FOUR** questions.

Marks: 4Qx5M = 20M

19. What are style sheets? What are the components of a CSS Style?
20. Explain built in functions in JavaScript with program.
21. i) Describe the Browser Object Model (BOM) in JavaScript.
 ii) Discuss the properties and methods of the window object, including alert(), confirm(), prompt(), and set Timeout().
22. What are the different types of operators available in Java? Provide examples and explain their usage.

I CO1
 III CO1
 III CO1
 I CO2
 IV CO2

[Type text]

BR-22

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY
III B.Tech - I Semester - II Mid Term Examination, December - 2024
(R22CSD3146) WEB PROGRAMMING
(For DS, AIDS & AIML)
DT: 18-12-2024, Day-2 (AN)

D4

Max Marks: 30M

Duration: 2 Hrs

Part - A

Marks: 10Qx1/2M = 5M

Answer All multiple choice questions.

* (L1-Remembering, L2-Understanding, L3-Applying, L4-Analyzing, L5-Evaluating, and L6-Creating.)

- | 1. Which methods are required to load a database driver in JDBC? | [|] | IV | CO3 | | | |
|---|---|---|-----|-----|--|--|--|
| A) getConnection() B) registerDriver() C) forName() D) Both B and C | | | | | | | |
| 2. JDBC-ODBC driver is also known as? | [|] | II | CO4 | | | |
| A) Type 4 B) Type 3 C) Type 1 D) Type 2 | | | | | | | |
| 3. Which of the following protocol follows connection less service? | [|] | III | CO4 | | | |
| A) TCP B) TCP/IP C) UDP D) HTTP | | | | | | | |
| 4. Which of the following is true about import Attribute? | [|] | V | CO5 | | | |
| A) The import attribute serves the same function as, and behaves like, the Java import statement. | | | | | | | |
| B) The value for the import option is the name of the package you want to import. | | | | | | | |
| C) Both of the above. | | | | | | | |
| D) None of the above. | | | | | | | |
| 5. Which of these methods is a part of Abstract Window Toolkit (AWT) ? | [|] | III | CO5 | | | |
| A) display() B) paint() C) drawString() D) transient() | | | | | | | |
| 6. Which of the following do not supports JSP directly? | [|] | II | CO5 | | | |
| A) Web logic Server B) Web Sphere Server | | | | | | | |
| C) Tomcat Server D) Apache HTTP Server | | | | | | | |
| 7. What Does XML Stand For? | [|] | II | CO6 | | | |
| A) EXtra Modern Link B) EXTensible Markup Language | | | | | | | |
| C) X-Markup Language D) Example Markup Language | | | | | | | |
| 8. Which Is Not A W3C-recommended Specification? | [|] | I | CO6 | | | |
| A) SAX B)DOM C) Both A & B D) None of the above | | | | | | | |
| 9. XML Is Designed To Store Data And ____. | [|] | I | CO6 | | | |
| A)Design B)Verify C)Both A & B D)Transport | | | | | | | |
| 10. Which Vocabulary Provides Supports To Build Links into XML? | [|] | II | CO6 | | | |
| A)XLink B)XPointer C)XSL D)XHTML | | | | | | | |

Marks: 6Qx1/2M = 3M

Answer All fill in the blank questions.

- | | | |
|--|-----|-----|
| 11. A good way to debug JDBC-related problems is to enable _____ | III | CO4 |
| 12. _____ driver is the fastest one. | I | CO4 |
| 13. _____ functions is called to display the output of an applet | II | CO5 |
| 14. Every applet should extend class _____ | II | CO6 |
| 15. DTD is used along with xml to specify _____ | II | CO6 |
| 16. A root element is a _____ of all other elements | I | CO6 |

Marks: 2Qx1M = 2M

Answer All Match the following questions

II CO6

17.	1. SOAP	A.	extensible Stylesheet Language Transformations
	2. UDDI	B.	Simple Object Access Protocol
	3. WSDL	C.	Universal Description, Discovery, and Integration
	4. XSLT	D.	Web Services Description Language

18.	1. start() method	A.	Can be called when the applet is minimized or refreshed
	2. paint() method	B.	Can be called each time an applet is started.
	3. stop() method	C.	Can be called when the browser is finished with the applet
	4. destroy() method	D.	Can be called when the browser moves off the applet's page.

II CO5

Part – B

Marks: 4Qx5M = 20M

Answer any FOUR questions.

- | | | |
|--|-----|-----|
| 19. Create the connection class using ODBC connectivity? | I | CO4 |
| 20. Can the Inet Address class functionality to detect the IP Addresses, be handled using URL class? If yes, Explain in detail. | I | CO4 |
| 21. Explain about session tracking mechanism of a servlet. | II | CO5 |
| 22. What is Applet? Explain how the parameters are passed to an Applet with suitable example | IV | CO5 |
| 23. Summarize the role of XML schema in building web services in detail. | III | CO6 |
| 24. Develop XML document that will hold player (like Cricket) collection with field for player-name, age, batting-average and highest-score. Write suitable document type definition and schema for the XML. | IV | CO6 |

[Type text]

R-22

HT.No.

D4
QC2470

SRI INDU COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution under UGC, New Delhi) • Recognized under 2(f) and 12(B) of UGC Act 1956

III B.Tech. I Semester (REGULAR) End Examinations, JANUARY- 2025.

(R22CSD3146) WEB PROGRAMMING

07/01/2025

(For AIML, AIDS & DS)

Day-4(FN)

Duration: 3 Hrs

Maximum Marks: 60M

Blooms Taxonomy : (I-Remembering, II-Understanding, III-Applying, IV-Analyzing, V-Evaluating and VI-Creating)

Course Outcomes : CO

PART - A

Answer ALL the following questions.

(10Qx1M=10M)

- | | | |
|--|-----|-----|
| 1. a) List out the limitations of CSS. | I | CO1 |
| b) Write any 5 HTML Tags. | I | CO1 |
| c) Explain the purpose of Packages. | II | CO2 |
| d) What is the use of String Buffer class in Java. | I | CO2 |
| e) List key methods in JDBC ODBC class. | IV | CO3 |
| f) How to access the java bean class? Give example. | I | CO3 |
| g) Build an Applet into a web page using Applet tag. | III | CO4 |
| h) When are Cookies created? How long does a cookie last? | I | CO4 |
| i) What is a well formed XML document? | I | CO5 |
| j) Discuss what are the uses of WSDL in web service interaction. | VI | CO5 |

PART - B

Answer FIVE questions choosing at least one from each unit.

(5Qx10M=50M)

UNIT-I

- | | | |
|---|-----|-----|
| 2a. i) Describe the difference between document and window object with suitable example. | III | CO1 |
| ii) Develop a web page for student data form using HTML and validate the registration form. | | |

(OR)

- | | | |
|---|----|-----|
| 2b. Explain in detail about CSS3 and their types with suitable example program. | II | CO1 |
|---|----|-----|

UNIT-II

- | | | |
|---|----|-----|
| 3a. What is Exception handling? Explain with example java programs. | II | CO2 |
|---|----|-----|

(OR)

- | | | |
|---|----|-----|
| 3b. Describe the Object oriented features of Java each with an example. | II | CO2 |
|---|----|-----|

UNIT-III

- | | | |
|--|-----|-----|
| 4a. i) What is batch processing and how to perform batch processing in JDBC? | III | CO3 |
| ii) Write a notes on catching database result. | | |

(OR)

- | | | |
|---|-----|-----|
| 4b. Explain the following with suitable example | III | CO3 |
| i) How to implement Java Beans? | | |
| ii) Differentiate TCP socket and UDP sockets. | | |

UNIT-IV

- | | | |
|--|---|-----|
| 5a. Explain the lifecycle of Applet. How will you pass parameters to Applet? | V | CO4 |
|--|---|-----|

(OR)

- | | | |
|---|----|-----|
| 5b. Develop a program using Applet to print the area of various shapes rectangle, circle using concept of virtual function. | VI | CO4 |
|---|----|-----|