

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF IT & COMPUTER SCIENCE**

BCA / BScIT/BCA(HONS)/BScIT(HONS)/IMC/MCA/M.Sc.IT 2024-25 Mid-Term Examination

Date: 20-03-2025

Time: (1hr:30min)

Total Marks: 40

Semester: 2

Subject Code: 05201293 /05202169

Subject Name: FSW

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

<b>Q.1</b>	<b>Answer the following.</b>	<b>[10]</b>
<b>(a)</b>	3 short questions of 1 mark each	<b>[3]</b>
	(i) Describe difference of LocalTime and LocalDateTime?	
	(ii) Implement how to convert a long to a String in Java?	
	(iii) What is the purpose of the .container class in Bootstrap?	
<b>(b)</b>	Objective type/MCQs/True-False/Fill in blanks (7 questions of 1 mark each)	<b>[7]</b>
	What is the default format of LocalDateTime when converted to a string?	
	a) MM-DD-YYYY HH:mm:ss	
	b) YYYY-MM-DD HH:mm:ss	
	c) DD-MM-YYYY HH:mm:ss	
	d) YYYY/DD/MM HH:mm:ss	
	<b>2. True or False:</b> The clearfix class in Bootstrap helps to clear floated elements.	
	<b>3.</b> Which method is used to convert a String to a Date?	
	a) parseDate(String s)	
	b) SimpleDateFormat.parse(String s)	
	c) Date.valueOf(String s)	
	d) convertToDate(String s)	
	<b>4. Fill in the blanks</b> The Bootstrap _____ class is used to create buttons, and _____ is used to add alerts.	
	<b>5.. In JSON, what is used to separate key-value pairs?</b>	
	a) : (colon)	
	b) = (equal sign)	
	c) -> (arrow)	
	d) , (comma)	
	<b>6.</b> What Bootstrap utility class makes an element invisible but still takes up space?	
	a) invisible	
	b) d-none	
	c) d-hidden	
	d) v-hidden	
	<b>7.</b> Which tool in the Selenium suite is used for writing automated test scripts?	
	a) Selenium Grid	
	b) Selenium IDE	
	c) Selenium WebDriver	
	d) Selenium Runner	
<b>Q.2</b>	<b>Answer the following. (2 or 3 mark questions)</b>	<b>[10]</b>
<b>(a)</b>	Two Questions of 2 Marks	<b>[4]</b>
	(i) What is the difference between OffsetTime and OffsetDateTime in Java?	<b>(02)</b>
	(ii) Describe what is JSON, and how is it different from XML?	<b>(02)</b>
<b>(b)</b>	Two Questions of 3 Marks	<b>[6]</b>





	(i) Demonstrate a Java program to convert a binary string to a decimal value.	(03)
	(ii) Implement buttons using Bootstrap, and where is it typically used?	(03)
<b>Q.3</b>	<b>Attempt any TWO.</b>	<b>[10]</b>
	(i) Demonstrate how to convert a String to a Date in Java.	(05)
	(ii) Implement how do you create a responsive table in Bootstrap?	(05)
	(iii) Construct a badge or label using Bootstrap, and where is it typically used?	(05)
<b>Q.4</b>	<b>Answer the following.</b>	<b>[10]</b>
(a)	Create a Java method that takes a LocalDateTime object and returns the number of days left until the end of the year.	(05)
(b)	Construct a star rating system using Bootstrap utilities. What classes would be helpful for this?	(05)
<b>OR</b>		
(b)	Analyze what is the role of AJAX in working with JSON in web development?	(05)