

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2024****Subject Code:3154204****Date:23-05-2024****Subject Name:Internet and Web Programming****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

- Q.1**
- | | | |
|-----|---|-----------|
| (a) | Explain the usage of InetAddress class. | 03 |
| (b) | Differentiate ServletConfig and ServletContext. | 04 |
| (c) | What is the use of CallableStatement? Explain it with proper example. | 07 |

- Q.2**
- | | | |
|-----|---|-----------|
| (a) | Discuss the use of execute(), executeUpdate() and executeQuery() methods. | 03 |
| (b) | Discuss Servlet life cycle methods. Explain role of web container. | 04 |
| (c) | Write a client server program using TCP where the client sends two numbers and the server responds by displaying their average. | 07 |

OR

- | | | |
|-----|---|-----------|
| (c) | Write a servlet code which reads the user registration details from web page and stores it in database. | 07 |
|-----|---|-----------|

- Q.3**
- | | | |
|-----|---|-----------|
| (a) | Compare JSP and Servlet. | 03 |
| (b) | What is Filter? List advantages and applications of filter. | 04 |
| (c) | What is Request Dispatcher? What is the difference between RequestDispatcher's forward() and include() method? Explain it in detail with program. | 07 |

OR

- Q.3**
- | | | |
|-----|--|-----------|
| (a) | What are JSP action tags? Explain any three. | 03 |
| (b) | Explain the life cycle of JSP page. | 04 |
| (c) | List and explain implicit objects of JSP with example. | 07 |

- Q.4**
- | | | |
|-----|--|-----------|
| (a) | What is JSF? explain its advantages. | 03 |
| (b) | List the JSF facelet tags and explain any two. | 04 |
| (c) | Explain the JSF request processing life cycle. | 07 |

OR

- Q.4**
- | | | |
|-----|---|-----------|
| (a) | Discuss JSF Converter Tag. | 03 |
| (b) | What is JSTL? Explain the core tags of the SQL tag library. | 04 |
| (c) | List session tracking techniques in JSP and Explain any two with example. | 07 |

- Q.5**
- | | | |
|-----|--|-----------|
| (a) | Discuss Hibernate Query Language. | 03 |
| (b) | Explain Advantages of Hibernate Framework. | 04 |

	(c)	Explain Hibernate Architecture.	07
		OR	
Q.5	(a)	Explain advantage of Spring MVC Framework.	03
	(b)	What is dependency injection? Explain in detail.	04
	(c)	Explain Java Spring Framework Architecture.	07
