R22 Regulation *Subject code:4P6EA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Regular/Supplementary Examinations, April 2026

FULL STACK DEVELOPMENT

(CSE)

Maximum Marks: 60 Date:21.04.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X1M=10 Marks)		Marks	CO	Bloom Tx
1.a)	Give an example for HTML element.	1M	CO1	L1
b)	What do you mean by anchor tag in HTML?	1M	CO1	L1
c)	Define variable.	1M	CO2	L1
d)	What is Encapsulation?	1M	CO2	L1
e)	Define Single Page Application (SPA).	1M	CO3	L1
f)	Why do we use useEffect for data fetching?	1M	CO3	L1
g)	Define pom.xml file.	1M	CO4	L1
h)	Define polymorphism.	1M	CO4	L1
i)	What is normalization?	1M	CO5	L1
j)	Define primary key.	1M	CO5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
2	a) Demonstrate the role of CSS in web development with suitable examples. b) Elaborate the UNIX Command Line Interface (CLI).	5M 5M	CO1 CO1	L2 L3
	OR			
3	a) Explain the concept of Version Control and describe the working of Git. b) Design a web page using external CSS to style headings and paragraphs.	5M 5M	CO1 CO1	L3 L3
4	a) Explain AJAX and how it is used for data exchange with a server. b) Elaborate JSON data format with examples.	5M 5M	CO2 CO2	L2 L3
	OR			
5	a) Describe different jQuery events with examples. b) Demonstrate the control statements in JavaScript.	5M 5M	CO2 CO2	L3 L2
6	a) Discuss the concept of form validation in React Forms. b) Describe the architecture and data flow in React.	5M 5M	CO3 CO3	L3 L3

	OR			
7	Explain the concept of Redux and its architecture. Discuss how React communicates with a server using APIs.	5M 5M	CO3 CO3	L3 L3
8	a) Demonstrate the concept of RESTful API development using Spring Framework. b) Discuss the role of Maven in Java web development projects.	5M 5M	CO4 CO4	L2 L3
	OR			
9	a) Describe MVC architecture using Spring Framework. b) List and explain various HTTP methods used in REST.	5M 5M	CO4 CO4	L3 L3
10	a) Discuss the functional dependency and its role in normalization. b) Describe the process of deploying an application in the cloud.	5M 5M	CO5 CO5	L3 L3
	OR			
11	a) Explain Agile development principles and their advantages. b) Outline and explain different types of languages and commands in SQL with examples.	5M 5M	CO5 CO5	L3 L3