R22 Regulation *Subject code:4E4FB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Regular/Supplementary Examinations, June 2026

WEB TECHNOLOGIES

(IT)

Maximum Marks: 60 Date:17.06.2026 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)	Define HTML5.	1M	1	1
b)	What is the use of the <script> tag?	1M	1	1
c)	Define JSON.	1M	2	1
d)	What are Node packages?	1M	2	1
e)	Mention any two features of Express.js.	1M	3	1
f)	What is POST body data?	1M	3	2
g)	What is the purpose of Angular CLI commands?	1M	4	2
h)	Define TypeScript.	1M	4	1
i)	Describe observables.	1M	5	2
j)	What is data binding in Angular.	1M	5	1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
2	Discuss different methods of controlling HTML and CSS using JavaScript.	10M	1	3
	OR			
3	Implement few HTML 5 features with examples.	10M	1	3
4	Explain about Request, Response, and Server objects in Node.js with examples.	10M	2	3
	OR			
5	Explain processing of URLs and Query Strings in Node.js.	10M	2	3
6	Describe the concept of Middleware and its types in Express.js.	10M	3	3
	OR			
7	Explain Basic HTTP Authentication and Session Authentication in Express.js.	10M	3	3
8	Explain Injecting Directives, Expressions, and Pipes in Angular.	10M	4	3

	OR			
9	Explain the steps involved in creating an Angular application using Angular CLI.	10M	4	3
10	Develop an application using Angular Services and Observables with examples.	10M	5	3
	OR			
11	Explain Browser Events and Custom Event Handling in Angular.	10M	5	3