



**R22 Regulation**

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A+' Grade)

**Subject code:4E4FB**

**B.Tech IV Semester Supplementary Examinations, December 2024**  
**WEB TECHNOLOGIES**  
(IT)

**Maximum Marks: 60**

Date:12.12.2024

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		CO	Bloom Tx
All the following questions carry equal marks (10x1M=10 Marks)			
1.a)	What is function expression in JavaScript example?	CO1	BL1
b)	What are heading tags in HTML5?	CO1	BL1
c)	What are query string parameters?	CO2	BL1
d)	How do we include the HTTP server in the Node module?	CO2	BL2
e)	How do you serve static files in Express.js?	CO3	BL2
f)	What is middleware in Express.js?	CO3	BL2
g)	What is an interface in TypeScript?	CO4	BL1
h)	How do you create a new Angular project using Angular CLI?	CO4	BL2
i)	What is the purpose of the ngFor directive?	CO5	BL1
j)	What is the role of services in Angular?	CO5	BL1
Part-B			Bloom Tx level
Answer All the following questions. (5X10M=50Marks)			
2	Develop an interactive web page for creating a registration form. [10M]	CO1	BL3
OR			
3	How to create a simple calculator using switch case and function using Javascript? Explain. [10M]	CO1	BL3
4	Explain Node.js web application architecture. [10M]	CO2	BL3
OR			
5	Implement NodeJS event model with neat diagram. [10M]	CO2	BL3
6	Explain how to configure routes in Express JS. [10M]	CO3	BL3
OR			
7	Discuss the implementation of Session Authentication in express JS. [10M]	CO3	BL3
8	A) Explain the process of setting up a new Angular project using Angular CLI. [5M] B) Describe the structure of an Angular project. [5M]	CO4	BL3
OR			
9	A) Discuss the importance of modules in Angular. [5M] B) Explain how to create and organize modules in a large Angular application. [5M]	CO4	BL2

10	Discuss the concept of interpolation, property binding, and event binding with examples. [10M]	CO5	BL3
	OR		
11	A) Explain how to implement a simple mock server using Angular's HttpClient. [5M] B) Include steps for setting up the mock server and making HTTP requests. [5M]	CO5	BL3