



R22 Regulation

Subject code:4E4FB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

TKRCEET
Institution of Excellence

B.Tech IV Semester Supplementary Examinations, December 2025

WEB TECHNOLOGIES

(IT)

Maximum Marks: 60

Date:29.12.2025

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)	What is the usage of CSS?	1M	CO1	BL1
b)	How to Put a JavaScript Into an HTML Page?	1M	CO1	BL2
c)	What is Node.js used for?	1M	CO2	BL1
d)	What is JSON?	1M	CO2	BL1
e)	Give the syntax for creating a Request Object.	1M	CO3	BL2
f)	What is the utility of middlewares in express?	1M	CO3	BL1
g)	What are the features of TypeScript?	1M	CO4	BL1
h)	Why do we use Custom Pipe?	1M	CO4	BL2
i)	Compare property binding with interpolation binding.	1M	CO5	BL2
j)	What is Mock Server?	1M	CO5	BL1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
2	a) Explain the purpose and way of creating lists in HTML documents.	5M	CO1	BL3
	b) Write a CSS which adds background images and indentation.	5M		
OR				
3	a) Explain the elements of JavaScript with relevant examples.	5M	CO1	BL3
	b) Show in detail about JavaScript variables and operators.	5M		
4	Explain how Event Model works in Nodejs.	10M	CO2	BL2
OR				
5	Discuss Implementation of HTTP Servers and clients in Nodejs.	10M	CO2	BL2
6	a) Write an application program using Express JS for displaying "Welcome message" on the webpage.	5M	CO3	BL3
	b) What is Response Object? Give the syntax for creating a Response Object.	5M		
OR				
7	Demonstrate the implementation of session-based authentication with a suitable example.	10M	CO3	BL3

8	Describe how to implement classes and modules with example.	10M	CO4	BL3
	OR			
9	Explain the building blocks to create Angular applications.	10M	CO4	BL3
10	Describe the three types of Built-in Directives with examples.	10M	CO5	BL2
	OR			
11	Illustrate the use of Observable to watch for changes of data with example.	10M	CO5	BL3