



R22 Regulation

Subject code:4E4EE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, December 2025

WEB TECHNOLOGIES

(Common to CSE, CSE(AI&ML) & CSE(DS))

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)	How do you declare a variable in PHP?	1M	CO1	BT2
b)	Which tag is used to define PHP code?	1M	CO1	BT2
c)	Define XML Schema and its purpose.	1M	CO2	BT1
d)	State rules to define tags in XML.	1M	CO2	BT1
e)	List the advantages of servlets over CGI.	1M	CO3	BT1
f)	Mention any two differences between Servlets and CGI.	1M	CO3	BT1
g)	What are JSP implicit objects?	1M	CO4	BT1
h)	How JSP resolves the problems with Servlets?	1M	CO4	BT2
i)	What is the Document Object Model (DOM) in JavaScript?	1M	CO5	BT2
j)	How do you validate a form using JavaScript?	1M	CO5	BT2

Part-B

Answer All the following questions: (5X10M=50Marks)		Marks	CO	Bloom Tx
2	Define an Array? Explain about the types of Arrays in PHP with an example	10M	CO1	BT2
OR				
3	a) Describe the procedure to connect PHP with MySQL database and perform basic operations. b) Explain the Built-in array functions of PHP with example.	5M 5M	CO1	BT3
4	a) List the advantages of XML Schemas over DTD s. b) Explain about Internal DTD's with an example.	5M 5M	CO2	BT3
OR				
5	What is an XML DOM? How DOM parses the XML file.	10M	CO2	BT2
6	a) Explain the life cycle of a Servlet. b) Write a servlet program to read form parameters and display them using HTML.	5M 5M	CO3	BT3
OR				
7	a) Define JDBC. Explain types of JDBC drivers b) Distinguish between CGI and Servlets	5M 5M	CO3	BT2

8	Explain about the <code>getProperty()</code> and <code>setProperty()</code> of beans in JSP.	10M	CO4	BT5
	OR			
9	Describe how session tracking can be done using cookies and session objects in JSP with sample code.	10M	CO4	BT3
10	a) Explain JavaScript variables, functions, and events with examples. b) What are the advantages of using AJAX in modern web development?	6M 4M	CO5	BT2
	OR			
11	Explain Document Object Model with suitable examples and code.	10M	CO5	BT5