R20 Regulation *Subject code: 3P5HB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, April 2026

WEB TECHNOLOGIES

(CSE(DS))

Maximum Marks: 70 Date: 17.04.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 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 (10X2M=20 Marks)		Marks	CO	BTL
1	How do you execute a PHP?	2M	1	L1
2	How to declare a PHP variable?	2M	1	L1
3	State rules to define tags in XML.	2M	2	L1
4	Define XML Schema.	2M	2	L1
5	Name two CGI environmental variables.	2M	3	L1
6	What are the advantages of servlets over CGI?	2M	3	L1
7	How are cookies used for session tracking in JSP?	2M	4	L1
8	Is it possible for one JSP to extend another java class? If yes how?	2M	4	L1
9	What is DATE object in JavaScript?	2M	5	L1
10	How are events handled in JavaScript?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	a) Write a PHP script to retrieve the data from MySQL database. b) How to execute a simple query in PHP? Illustrate.	5M 5M	1	L2
	OR			
12	a) With an example explain the casting of data types in PHP. b) How to list the directories in PHP?	5M 5M	1	L2
13	Collect the student's details such as, register number, name, subject and marks using forms and generate a DTD for this XML document. Display the collected information in the descending order of marks. Write XML source code for the above.	10M	2	L2
	OR			
14	Explain document structure description with example code in XML.	10M	2	L2
15	What is a 'servlet'? Explain the life cycle of a servlet with an example servlet program.	10M	3	L2
	OR			
16	a) Write servlet program for displaying "Hello World". b) Explain how to connect to a database using JDBC.	5M 5M	3	L2

17	Explain various categories of JSP tags with syntax and suitable examples.	10M	4	L2
	OR			
18	a) What are the features of Java Server Page technology? Explain. b) Write a JSP program to validate username and password?	5M 5M	4	L2
19	How is Client-side Java Script different from Server-side Java Script?	10M	5	L2
	OR			
20	Write a program in JavaScript to convert temperature from Celsius to Fahrenheit and vice versa or Height from centimeters to inches and vice-versa.	10M	5	L2