



R20 Regulation

Subject code: 3P5HB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Regular Examinations, January 2023

WEB TECHNOLOGIES

(CSE (DS))

Maximum Marks: 70

Date: 09.01.2023 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 which carries 10M.
 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)

- 1 Which tag is used to define PHP code?
- 2 How to perform a query in PHP?
- 3 Write the basic document structure of XHTML.
- 4 Differentiate HTML and XHTML.
- 5 List the difference between Servlet and Applet.
- 6 Write the Life Cycle of Servlet.
- 7 What is JSP and types?
- 8 What is the usage of JSP page directive?
- 9 What are the features of JavaScript?
- 10 Define object in JavaScript with an example.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Explain database connectivity in PHP with reference to MySQL.
b) Write a PHP script for searching a website URL for a keyword or sentence. [5+5]
OR
- 12 a) Explain the Built-in array functions of PHP with example.
b) Write a PHP script to add and remove users from a MySQL table. [5+5]
- 13 a) What is DOM?
b) Compare and contrast DOM parser with SAX Parser. [3+7]
OR
- 14 a) List any two XML tags with their attributes and values.
b) 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. [4+6]
- 15 a) Write note on Common Gateway Interface (CGI).
b) What potential advantages do servlets have over CGI programs? Explain. [5+5]

OR

- 16 a) Describe the life cycle of a java servlet and write a simple servlet that reads three parameters from the form data.
b) Explain the differences between Generic Servlet and HttpServlet. [5+5]
- 17 Explain the declaration, scriptlet and expression of JSP in detail. [10]
- OR
- 18 Explain the different methods used for Session tracking briefly. [10]
- 19 a) Write a java script to validate a form consisting of a hall ticket number as username and mobilenumbers as password. Also navigate to another webpage after validation.
b) What is the functioning of the javascript keyword "this" and "dot" operator? Explain. [5+5]
- OR
- 20 a) Write a JavaScript program to find the largest among 5 numbers.
b) Explain Document Object Model with suitable examples and code. [5+5]