



R22 Regulation

Subject code: 4E4EE

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Regular Examinations, July 2024

WEB TECHNOLOGIES

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

Maximum Marks: 60

Date:27.07.2024 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) | List any two advantages of PHP. | CO1 | L1 |
| b) | Write PHP program to print reverse of any number | CO1 | L1 |
| c) | Define DOM | CO2 | L1 |
| d) | Outline the advantages of XML. | CO2 | L2 |
| e) | Can we use java as the CGI language? If yes, How? | CO3 | L2 |
| f) | Define Servlet. | CO3 | L2 |
| g) | Define JSP. Mention its use. | CO4 | L1 |
| h) | Choose an example for JSP expression. | CO4 | L1 |
| i) | Define JavaScript variables. | CO5 | L1 |
| j) | What is Document Object Model? | CO5 | L1 |
| Part-B | | | Bloom Tx level |
| Answer All the following questions. (5X10M=50Marks) | | | |
| 2.a) | List and explain the control structures used in PHP. (5M) | CO1 | L2 |
| b) | Discuss about various file operations on text files in PHP. (5M) | CO1 | L2 |
| OR | | | |
| 3.a) | How to read data from web form control like Text boxes explain with an example. Explain. (5M) | CO1 | L2 |
| b) | Outline the statements that are used to connect PHP with MySQL with an example. (5M) | CO1 | L2 |
| 4.a) | Collect the student's details such as, register number, name, subject and marks using forms and generate a DTD for this XML document. (5M) | CO2 | L3 |
| b) | Compare and contrast DOM parser with SAX Parser. (5M) | CO2 | L4 |
| OR | | | |
| 5.a) | What is XML Schema? State its purpose and list its advantages over DTD. (5M) | CO2 | L2 |
| b) | How can both Internal and External DTDs be used in an XML File? Show with an Example. (5M) | CO2 | L2 |

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|-------|---|-----|----|
| 6.a) | Describe the life cycle of a java servlet and write a simple servlet that reads three parameters from the form data. (5M) | CO3 | L2 |
| b) | How does server-side programming differ from client-side programming? Explain. (5M) | CO3 | L2 |
| OR | | | |
| 7.a) | Develop a servlet that handles an HTTP POST request. (5M) | CO3 | L3 |
| b) | What potential advantages do servlets have over CGI programs? Explain. (5M) | CO3 | L2 |
| 8.a) | How to use Cookies and session for session tracking? Explain with an example. (5M) | CO4 | L2 |
| b) | Write in detail about JSP processing. (5M) | CO4 | L2 |
| OR | | | |
| 9.a) | What are JSP Code snippets? Build a JSP program to display current date and time. (5M) | CO4 | L3 |
| b) | Discuss about the features of JSP pages. (5M) | CO4 | L2 |
| 10.a) | With an example program, illustrate form validation concept in JavaScript. (5M) | CO5 | L2 |
| b) | Write a simple AJAX application. (5M) | CO5 | L2 |
| OR | | | |
| 11.a) | How to declare and use variables in JavaScript? (5M) | CO5 | L2 |
| b) | Develop a program in JavaScript to convert temperature from Celsius to Fahrenheit and vice versa. (5M) | CO5 | L3 |