'04 JAN 2022

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022
Fifth Semester
Information Technology
20ITPC501 - WEB TECHNOLOGY
(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	Define web essentials and its components.	2,K1,CO1
2.	Illustrate the different types of cascading style sheets.	2,K1,CO1
3.	What is the need of scripting languages in web Technologies?	2,K1,CO2
4.	What do you mean by implicit type conversion? Give an example.	2,K1,CO2
5.	Differentiate client side scripting and server side scripting.	2,K2,CO3
6.	How to create a cookie using servlet?	2,K2,CO3
7.	Write two basic differences between JSP and servlet.	2,K2,CO4
8.	Compare DOM and SAX in XML processing.	2,K2,CO4
9.	State where AJAX cannot be used.	2,K1,CO5
10.	What is UDDI?	2,K1,CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11. a) (i) Explain the use of relative URL's with an example.   7, K2,CO1
       (ii) Explain how the tables can be inserted into HTML document with   6, K2,CO1
       an example.

OR

    b) Write an HTML script which creates a web page which should   13,K2,CO1
       display the available book details in a shop in a tabular form with
       title of the book, author details, quantity and price of the book. The
       customer should choose the required books from the list. The
       shopkeeper should prepare the bill. Prepare web form for the same
       finally.

12. a) (i) Write a JavaScript to print "Good Day" using IF-ELSE condition.   5,K3,CO2
       (ii) Write an example for JavaScript form validation. If a form field is   8,K3,CO2
       empty, it alerts a message, and returns false, to prevent the form from
       being submitted.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **11550**

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OR

b) Explain Event Binding, Property Binding and Data binding in detail.   13,K2,CO.

13. a) Write a HTTP servlet program to authenticate a user and retrieve all   13,K2,CO.
information from a HTML registration Form and store it in a given
database.

OR

b) What is DOM? Draw the detailed DOM objects structure. Explain with   13,K2,CO3
its usage.

14. a) Discuss the significance of Java Bean classes in the context of JSP.   13,K2,CO4

OR

b) Explain SAX based XML processing with examples.   13,K2,CO4

15. a) (i) Discuss AJAX architecture and compare it with DOM and SAX.   7,K2,CO5
(ii) What languages are used to represent data on the web? Explain any   6,F O5
two of them.

OR

b) (i) Discuss the various aspects of JAX-RPC.   7,K2,CO5
(ii) Develop a Java Web Service that would do arithmetic operations.   6,K3,CO5

PART - C (1 × 15 = 15 Marks)

16. a) A local university has asked you to create an DHTML document that   15,K4,CO6
allows prospective students to provide feedback about their campus
visit. Your DHTML document should contain a form with text boxes
for a name, address and e-mail. Provide checkboxes that allow
prospective students to indicate what they liked most about the
campus. The checkboxes should include: students, location, campus,
atmosphere, and sports. Also, provide radio buttons that ask the
prospective students how they became interested in the university.
Options should include: friends, television, Internet and other. In
addition, provide a text area for additional comments, a submit button
and a reset button. Validate all the necessary fields with specified
conditions.

OR

b) Develop an Online application for a supermarket named "XYZ   15,K4,CO6
Supermarket" to purchase grocery with suitable web components and
validate the same using java script. Display the purchased bill consists
of items, quantity and its amount, total amount. The mode of payment
can be Cash on Delivery/Debit or Credit card/Netbanking.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **11550**