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Question Paper Code	13619
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**B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2025**  
**Fifth Semester**  
**Information Technology**  
**20ITPC501 - WEB TECHNOLOGY**  
**Regulations - 2020**

Duration: 3 Hours

Max. Marks: 100

**PART - A (MCQ) (10 × 1 = 10 Marks)**

Answer ALL Questions

Marks	K – Level	CO
1	K2	CO1

- What is the output when the following form is submitted without entering text?  

```
<form>
  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required>
  <button type="submit">Submit</button>
</form>
```

  - Form submits successfully
  - Form does not submit and shows an error.
  - The required attribute is ignored
  - The form submits but the server receives an empty string.
- Which protocol resolves domain names to IP addresses?  
  - HTTP
  - FTP
  - DNS
  - IMAP
- Which of the following Attribute is used to include External JS code inside your HTML Document?  
  - src
  - href
  - link
  - script
- What will be the result of the following JavaScript code?  

```
var a = 10;
var b = 5;
console.log ("5" + a + b );
```

  - 515
  - 5105
  - 20
  - None of these
- Which method is used to attach an event handler to an element?  
  - attachEvent
  - onEvent
  - bind
  - addEventListener
- How can you retrieve a parameter value from an HTTP request in Java Servlet?  
  - request.fetchParameter()
  - request.retrieveParameter()
  - request.getParameter()
  - request.readParameter()
- How do you load the MySQL JDBC driver in JSP?  
  - DriverManager.load("com.mysql.jdbc.Driver")
  - Class.register("com.mysql.jdbc.Driver")
  - Class.forName("com.mysql.jdbc.Driver")
  - JDBC.loadDriver("com.mysql.jdbc.Driver")
- What is the full form of XSLT?  
  - XML Style Language Transformation
  - Extensible Stylesheet Language Transformation
  - XML Standard Language Template
  - Extensible Structure Language Transformation
- Which object is used to send asynchronous requests in AJAX?  
  - XMLHttpRequest
  - AJAXRequest
  - HttpRequest
  - None of these

10. What are the main components of a WSDL document? 1 K1 CO6
- Endpoint, Servlet, Request, and Response
  - Protocol, Service, REST, and SOAP
  - XML, JSON, SOAP, and HTTP
  - Service, PortType, Binding, and Operation

**PART - B (12 × 2 = 24 Marks)**

Answer ALL Questions

11. Demonstrate the web page with the below content: 2 K2 CO1  
 “I am Learning **Web** Technology”  
~~Water~~Molecule Equation: H<sub>2</sub>O
12. Outline the web page with the information given below: 2 K2 CO1  
 Paint the background of the body to gray color.  
 Set the artist h1 to be only uppercase.
13. Summarize any four methods in date object in JavaScript. 2 K2 CO2
14. Demonstrate the event handling methods in JavaScript with an example. 2 K2 CO2
15. Differentiate GET and POST actions. 2 K2 CO3
16. Explain the purpose of cookies in Web Programming. 2 K2 CO3
17. Explain in detail about XML namespace. 2 K2 CO4
18. Summarize the purpose of JSTL. 2 K2 CO4
19. Explain in detail about AJAX call back function. 2 K2 CO5
20. Infer the objectives of JSON in the development of web page. 2 K2 CO5
21. Illustrate the concept of Web Services with an example. 2 K2 CO6
22. Explain in detail about SOAP Protocol. 2 K2 CO6

**PART - C (6 × 11 = 66 Marks)**

Answer ALL Questions

23. a) (i) Demonstrate a HTML Page that displays the below table 7 K2 CO1

Month	Savings	Maximun Savings/Month
January	\$250	\$250
February	\$160	
Total Savings		\$410

- (ii) Illustrate a HTML page with the tag to insert an image “products.jpg” and link the image to a html page name “productlist.html”. 4 K2 CO1

**OR**

- b) Demonstrate a HTML Form to receive user details for Registration. It includes, getting name, phone number, Gender, Mail id, Address, Date of Birth and submit button. Write a suitable CSS code to decorate the web page with nice appearance. 11 K2 CO1
24. a) (i) Explain how event handling is done in JavaScript, Apply the same to change the paragraph content “Web Technology” with default text nature into bold, green color and size 20 by clicking the button named “Change Me”. 6 K2 CO2
- (ii) Develop an external Java Script Program and call it from the web page to compute prime numbers between 1 and 100. 5 K2 CO2

**OR**

- b) Illustrate a HTML page with the components below. Write a JavaScript code such that 11 K2 CO2  
 On clicking Add, a number entered should be added in an array (validate for numbers and empty cases)  
 On clicking Sum, the array element and the sum of array should be printed as given

	Add	Sum
--	-----	-----

Array : 15-24-12

Sum is : 51

25. a) Explain the procedure to store, retrieve, delete and update data into the database using servlet for a student registration application consisting of (Name, Register Number, Branch, Gender). 11 K2 CO3
- OR**
- b) Interpret with an example, how the sessions are handled in a servlet. 11 K2 CO3
26. a) Explain the life cycle of a JSP page with neat diagram. 11 K2 CO4
- OR**
- b) Explain in detail the XML event oriented parsing technique. 11 K2 CO4
27. a) Explain AJAX client Server architecture with a neat block diagram. 11 K2 CO5
- OR**
- b) Explain http request object and call back methods. 11 K2 CO5
28. a) Explain the various operations performed by the WSDL and what is the purpose of the concrete and abstract in WSDL. 11 K2 CO6
- OR**
- b) Explain in details about Web Services and the structure of SOAP Request and Response. 11 K2 CO6