Kadi Sarva Vishwavidyalaya

Vidush Somany institute of technology and research, Kadi

Faculty of Engineering & Technology

Semester: 3

Subject Code: CT305-N

Subject Title: IT Workshop

Question bank

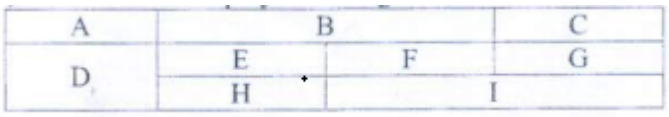
Unit 1: Introduction to WWW

1. What is HTTP? Explain HTTP Request and HTTP Response Message in detail.
2. Explain FTP, SMTP.
3. Why is HTTP called a stateless protocol?
4. Explain the client-server model with examples.
5. Describe website design principles.
6. What is a secure connection and how is it established?
7. Explain WWW architecture with figure.
8. Differentiate between client-side scripting and server-side scripting.

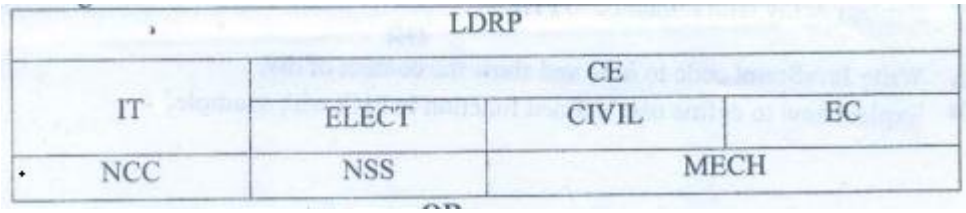
Unit 2: Introduction to HTML

1. What is HTML? Explain list, href, pre, img tags with its attributes.
2. What is an HTML table? Explain table elements with necessary attributes. Write an HTML code to display a specific table given below.

   I)



   II)



3. Explain meta tags with examples.
4. What is XHTML? Explain the transition from HTML to XHTML.
5. Define and differentiate cellspacing, cellpadding, colspan, rowspan, span.
6. Explain the use of frameset in website design with an example.

7. Explain HTML layout elements with one example.
8. What is HTML form? Explain different form attributes and design a user registration form with those attributes.

Unit 3: CSS

1. Explain the CSS Box Model.
2. What is CSS? Explain inline, internal, and external CSS with examples.
3. List CSS background properties and explain them with suitable examples.
4. Explain the use of the following CSS properties: float, z-index, position, background-attachment, background-position.
5. Explain id, class, and element selectors with examples.
6. Explain CSS margin, padding, and border properties with examples.
7. Explain CSS syntax and structure with examples.
8. Explain properties of text, borders, boxes, margin, and padding in one example.

Unit 4: JavaScript

1. How to use an external JavaScript file in an HTML document? Give a suitable example.
2. Why is validation required? Show the use of regular expressions in JavaScript to validate an email address with examples.
3. What is the Document Object Model (DOM)? Explain various objects in the DOM.
4. Write a JavaScript program to check whether an entered string is a palindrome or not.
5. Explain event handling in JavaScript with simple examples.
6. Write a JavaScript code to validate a registration form (username, email, mobile number, address, and password).
7. Write a JavaScript program to check whether an entered number is prime or not.
8. Explain the difference between cookies and sessions.
9. Explain the popup boxes in JavaScript with examples.
10. Create an HTML code with JS which takes an integer number as input and tells whether the number is odd or even.
11. Write JavaScript code to hide and show the content of a div.
12. Explain variables, functions, and conditions in JavaScript with one example.
13. Explain the following events with examples:

- onfocus
- onblur
- onmouseover
- onmouseout
- onchange

Unit 5: XML and AJAX

1. What is XML? Give its elements and explain its use with examples.
2. Create an XML file and XML Schema to store student information like enrollment number, name, mobile number, and email ID.
3. Explain the difference between XML Schema and DTD.
4. Describe AJAX, its advantages, and disadvantages.
5. Write a PHP program to insert values of a feedback form into a database.

6. Explain how to use user-defined objects in JavaScript and how a constructor can populate data in the object.
7. Write an XML file to store information of an employee.
8. Explain the elements of XSL.
9. Write a DTD file for a student XML document with basic information like Roll No, Name, Email, Division.

Unit 6: PHP

1. What is PHP? Explain database connection in PHP.
2. Explain how to define a user-defined function in PHP with an example.
3. Write a PHP script for login authentication.
4. Create a registration form with all necessary fields and apply JavaScript code to validate those fields.
5. Explain PHP arrays with one example.
6. Write a PHP program to check if a number is a palindrome or not.
7. Write a PHP script to read data from a text file and display it in an HTML table.
8. Write a PHP script for storing and retrieving user information from a MySQL table.
9. What is WordPress used for? Mention five benefits of WordPress.
10. Explain the difference between cookies and sessions.
11. Write a PHP program to insert values of a feedback form into a database.

Additional Topics from Experiments

1. Design web pages for your college containing descriptions of the courses, departments, faculties, library, etc. Use href and list tags.
2. Create your class timetable using the table tag.
3. Develop a JavaScript to display today's date.
4. Write a PHP program to check if a number is a palindrome or not.
5. Create a blog website using WordPress with different available plug-ins. Implement all the features of a blog website.
6. Implement the basic website structure using the CodeIgniter framework.
7. Using AJAX, fetch information from a database.
8. Install SciLab and get familiar with the general environment and console. Conduct simple mathematical/numerical operations in SciLab and plot curves/graphs using the graphics window.