GUJARAT TECHNOLOGICAL UNIVERSITY

BE-6 SEMESTER – OLD PAPER – S22 TO W25 – QUESTION BANK

Subject Name & Code:
WEB TECHNOLOGY (3161012)

Unit 1: Introduction to Web & Web Design

Repeated Questions:

1. **What is HTTP? Explain HTTP Request and Response.** (W24 - Q2 OR, 07 marks), (S22 - Q1a, 03 marks & Q1c, 07 marks), (S24 - Q3c, 07 marks), (S25 - Q1c, 07 marks)
2. **List and explain the website design principles.** (W23 - Q1a, 03 marks), (S22 - Q1c, 07 marks), (S25 - Q1a, 03 marks)
3. **Explain the architecture of web browser. / Draw and explain Web Browser Architecture. / Sketch and Describe architecture of web browser.** (W24 - Q1c, 07 marks), (S24 - Q1a, 03 marks), (S22 - Q1b, 04 marks), (W25 - Q2b, 04 marks)
4. **Discuss the web design issues in detail. / Describe web design issues. / Explain different design issues involved in designing an effective website.** (S24 - Q1c, 07 marks), (W23 - Q1c, 07 marks), (W25 - Q2c, 07 marks)
5. **Define Protocol. / What do you mean by Protocols? Discuss in detail.** (S24 - Q1a, 03 marks), (W22 - Q1a, 03 marks)
6. **List the various types of servers. / List out Types of Web Servers and explain anyone in detail.** (S24 - Q1a, 03 marks), (W22 - Q1b, 04 marks)

Other Important Questions:

1. **Describe planning of the website and its navigation.** (W23 - Q1a, 03 marks)
2. **What is navigation? Discuss the characteristics of effective navigation. Also write code of html page to open a link in a new browser window.** (S25 - Q2c, 07 marks)
3. **Explain any two website design issues.** (S25 - Q4a, 03 marks)
4. **Give full form of following Acronyms: (a) WWW (b) HTTP (c) XHTML** (W24 - Q1a, 03 marks)
5. **Give full form of following Acronyms: (a) URL (b) HTTP (c) HTML (d) ISP** (W22 - Q3b, 04 marks)
6. **How server and client communicate using HTTP?** (S22 - Q1a, 03 marks)
7. **Discuss how display resolution affects website design.** (W22 - Q4a, 03 marks)
8. **What is Web?** (From Syllabus Image, Implicit in all intro questions)
9. **What are Secure connections, application and development tools?** (From Syllabus Image)
10. **What is server?** (From Syllabus Image)
11. **Setting up UNIX and Linux web servers, Logging users, dynamic IP.** (From Syllabus Image)
12. **Web site design principles, planning the site and navigation.** (From Syllabus Image)

Unit 2: HTML & HTML5

Repeated Questions:

1. **Design a registration page / login page in HTML.** (W22 - Q2 OR, 07 marks), (S24 - Q2c, 07 marks), (S25 - Q2 OR, 07 marks), (W24 - Q2c, 07 marks), (W25 - Q3b, 04 marks)
2. **Explain ordered and unordered list with example. / Describe concept of ordered list and unordered list with example. / Compare: Ordered List and Unordered List.** (W25 - Q4b, 04 marks), (S22 - Q3b, 04 marks), (S24 - Q2b, 04 marks)
3. **How to add table in HTML page? Write HTML code to enter given data in tabular format.** [Table given - refer Question paper of Season Year] (S22 - Q3c, 07 marks), (W24 - Q1c, 07 marks), (W23 - Q2 OR, 07 marks)
4. **What is HTML table? Explain table element with rowspan, colspan, align, valign, cellpadding, cellspacing attributes.** (W24 - Q1c, 07 marks), (W23 - Q2 OR, 07 marks)
5. **Differentiate Conventional HTML vs HTML5.** (W22 - Q5c, 07 marks), (W24 - Q2b, 04 marks)
6. **Explain frames and its usage in HTML with examples. / Discuss frames in HTML.** (S24 - Q5 OR, 07 marks), (W23 - Q2b, 04 marks)
7. **What is an HTML tag? Explain the following HTML tags:** <h1>, <p>, <a>, <img>, <br>, <body> (W25 - Q1c, 07 marks)
8. **What are HTML Elements? Explain any one in detail. / What is an HTML element? Explain HTML element with the help of an example.** (W22 - Q4b, 04 marks), (W25 - Q2a, 03 marks)
9. **Explain new elements in HTML5.** (W23 - Q2a, 03 marks)

Other Important Questions:

1. **What is HTML? Explain basic structure of a simple HTML document.** (W25 - Q1a, 03 marks)
2. **How many types of heading does an HTML contain? Explain them. / Explain HTML headings with examples.** (S24 - Q2a, 03 marks), (W25 - Q1b, 04 marks)
3. **Design Student registration page for any event in HTML. / Design a page with HTML, which show daily routine time table of yours.** (S24 - Q2c OR, 07 marks)
4. **What is HTML List? What are the types of HTML List? Explain each with HTML coded example.** (S23 - Q1, Not Specified)
5. **List and explain various list tags in HTML with example.** (W24 - Q1b, 04 marks)
6. **Design a form using HTML and JavaScript that asks the user to enter his date of birth and on clicking the Calculate Button it calls the function that calculates how many days are left in your birthday?** (S23 - Q3c, Not Specified)
7. **Explain following html tags with proper example. (any two) 1.** **2.** <a> **3.** <p> (W23 - Q1b, 04 marks)
8. **Discuss about HTML form tag. Give names of different form attributes and create a student feedback form (use textbox, text area, checkbox, radio button, select box etc.)** (W23 - Q2c, 07 marks)
9. **Write HTML code to display your resume on web-page.** (S22 - Q3c, 07 marks)
10. **How to add image in HTML page? Describe with example.** (S22 - Q3a, 03 marks)
11. **How to change the font size in HTML document? Describe with example.** (S22 - Q3 OR a, 03 marks)
12. **Describe following HTML Tag. (1)** <b> **(2)** <body> **(3)** **(4)** <script> (S22 - Q2 OR, 07 marks)
13. **List out Various Input Elements of HTML and explain any one in detail.** (W22 - Q4 OR a, 03 marks)
14. **What do you mean by Meta Tags? Show their meaning and uses with examples.** (W22 - Q4 OR b, 04 marks)
15. **How to create a hyperlink in HTML? Write a code for it.** (S24 - Q5a, 03 marks)
16. **Describe with example : (1) ID (2) Class.** (S22 - Q2a, 03 marks)
17. **Describe DOM structure of HTML.** (S22 - Q2b, 04 marks)

18. **Explain: Absolute URL, Relative URL.** (W25 - Q3 OR a, 03 marks)
19. **What is HTML attributes? Explain href, style and src attributes with an example.** (W25 - Q2 OR, 07 marks)
20. **Which are the points to be considered for planning a website?** (W25 - Q3a, 03 marks)

Unit 3: JavaScript

Repeated Questions:

1. **Explain pop-up boxes in JavaScript with examples.** (S23 - Q3a, Not Specified), (S24 - Q3c, 07 marks), (S25 - Q3c, 07 marks), (W24 - Q4 OR c, 07 marks)
2. **List down the advantages of JavaScript. / List some advantages of JavaScript.** (S24 - Q3a, 03 marks), (S23 - Q3a, Not Specified), (W24 - Q4a, 03 marks)
3. **Compare and contrast Client Side and Server Side Scripting. / Write the difference between Client-Side Scripting and Server-Side Scripting. / Differentiate between Client-Side Scripting and Server-Side Scripting.** (S23 - Q3a, Not Specified), (S24 - Q3 OR a, 03 marks), (S25 - Q1b, 04 marks), (W24 - Q4 OR b, 04 marks)
4. **What do you mean by event in JavaScript? Give at least two examples of events with their handling. / Describe event in Javascript. Explain any one with example.** (S24 - Q3 OR b, 04 marks), (W22 - Q4c, 07 marks), (S22 - Q4a, 03 marks), (W25 - Q4c, 07 marks)
5. **Write a JavaScript, that uses a loop, that searches a word in sentence held in an array, returning the index of the word.** (S23 - Q3b, Not Specified), (S25 - Q4b, 04 marks)
6. **Write a JavaScript code to find out whether the given number is a Palindrome or not. / Write a JavaScript to check input string is palindrome or not.** (W23 - Q4 OR c, 07 marks), (W25 - Q5b, 04 marks)
7. **Write a JavaScript code to find out factorial of the given number. / Write a java script code to find whether given number is prime or not.** (W23 - Q4c, 07 marks), (S23 - Q3b, Not Specified)

Other Important Questions:

1. **Write JavaScript code to validate 10 digit mobile number.** (S22 - Q4c, 07 marks)
2. **Write Javascript code to validate password with following requirements (1) Password must have one small letter, one capital letter, one digit and one special character (2) Password must not have white space (3) Length must be greater than 8 characters.** (S22 - Q4 OR c, 07 marks)
3. **Write Javascript code to print Fibonacci series.** (S22 - Q4 OR b, 04 marks)
4. **Write Javascript code to print following pattern. Number of row is taken runtime. *** [Figure given - refer Question paper of Season Year] (S22 - Q4b, 04 marks)
5. **Explain datatypes and operators used in JavaScript.** (S24 - Q3b, 04 marks)
6. **Explain HTML forms and form validation in JavaScript.** (S24 - Q3 OR c, 07 marks)
7. **Explain nested loops in JavaScript.** (W23 - Q4a, 03 marks)
8. **Explain JavaScript Functions.** (W23 - Q4 OR b, 04 marks)
9. **What is Purpose of JavaScript?** (W22 - Q5 OR a, 03 marks)
10. **What is client-side scripting? Write an HTML and JavaScript program which accepts N as input and print first N odd numbers.** (W24 - Q4c, 07 marks)
11. **Explain any two types of events in Java Script with Example.** (W24 - Q4b, 04 marks)
12. **List the data types in Javascript.** (W24 - Q4 OR a, 03 marks)
13. **Write JavaScript code to know which mouse button was clicked and number of elements in form.** (S25 - Q3a, 03 marks)
14. **Write a JavaScript to accept a number to check whether it is greater than 100 or not?** (S25 - Q3b, 04 marks)
15. **State true or false and justify your answer: "Java Script is untyped language".** (S25 - Q3 OR a, 03 marks)
16. **Write a program to develop simple calculator for addition, subtraction, multiplication and division operation using JavaScript.** (S25 - Q3 OR c, 07 marks)
17. **Discuss any three ways to declare JavaScript variable.** (W25 - Q4 OR a, 03 marks)
18. **List out types of JavaScript operators.** (W25 - Q4 OR b, 04 marks)
19. **Write a JavaScript program to validate an Email address.** (W25 - Q5 OR b, 04 marks)

Unit 4: Cascading Style Sheets (CSS & CSS3)

Repeated Questions:

1. **What is CSS? Explain the different types of CSS with example. / Explain different types of CSS.** (W24 - Q3b, 04 marks), (W25 - Q3c, 07 marks), (W23 - Q3 OR a, 03 marks)
2. **Explain CSS Box model. / Explain BOX Model in CSS.** (W24 - Q3 OR a, 03 marks), (W23 - Q3b, 04 marks)
3. **How 2D and 3D transitions are done in CSS.** (W22 - Q1b, 04 marks), (W24 - Q3a, 03 marks)
4. **List advantages and disadvantages of CSS. / Illustrate advantages and limitations of CSS.** (S24 - Q5b, 04 marks), (S25 - Q5b, 04 marks), (W23 - Q3 OR b, 04 marks)
5. **How would you embed CSS in your HTML?** (S24 - Q5 OR b, 04 marks), (S25 - Q5 OR b, 04 marks)
6. **What do you mean by class and id in CSS? / Differentiate between "ID" and "CLASS" using suitable examples.** (S25 - Q5c, 07 marks), (W22 - Q3b, 04 marks)
7. **Write HTML+CSS code to have following effects: (1) Title Line : color=blue, font-style=Calibri, font-size=20, alignment=center (2) Paragraph : color=red, font-style=Cambria, font-size=15, alignment=left** (S22 - Q3b, 04 marks), (W24 - Q3 OR b, 04 marks)
8. **Explain the CSS position property. / What is positioning in CSS? Explain it with example.** (S23 - Q4a, Not Specified), (W24 - Q3 OR c, 07 marks)

Other Important Questions:

1. **Explain CSS Pseudo-elements and Pseudo-classes? Explain with the example.** (S23 - Q4c, Not Specified)
2. **What is the meaning of cascading? How do style sheets cascade?** (S23 - Q4b, Not Specified)
3. **List different Media types in CSS.** (S23 - Q4c, Not Specified)
4. **What is the float property used for in CSS?** (S23 - Q4a, Not Specified)
5. **How to integrate CSS on a web page?** (S23 - Q4b, Not Specified)
6. **Explain the CSS Box Model and its different elements.** (S23 - Q4c, Not Specified)
7. **Explain importance of CSS. Write the syntax for defining CSS.** (W23 - Q3a, 03 marks)
8. **List different font properties in CSS and explain it with suitable examples.** (W23 - Q3c, 07 marks)
9. **Write and explain Border and Padding properties in CSS along with suitable examples.** (W23 - Q3 OR c, 07 marks)
10. **List different text properties in CSS and explain any two of them with suitable example.** (W23 - Q4b, 04 marks)
11. **List out the salient Features of CSS 3.0.** (W23 - Q4 OR a, 03 marks)
12. **Explain how to use the same style sheets for different webpages.** (S25 - Q2a, 03 marks)
13. **How many types of text alignments can be included in a CSS page? Which property of CSS controls the repetition of image inserted in a web page as a background?** (S24 - Q5 OR a, 03 marks), (S25 - Q4 OR a, 03 marks)
14. **Differentiate CSS vs HTML.** (W22 - Q3a, 03 marks), (W24 - Q2a, 03 marks)
15. **Write CSS code for the following: 1) Set the background color for the hover and active link states to "yellow". 2) Set the list style for unordered lists to "square". 3) Set "paper.gif" as the background image of the page.** (W24 - Q3c, 07 marks)
16. **Design a web page of your hometown with an attractive background color, text color, an Image, font etc. (use internal CSS).** (S24 - Q5c, 07 marks)
17. **Write HTML and CSS code for the following: (i) Set color of visited link to "green". (ii) Set background color of paragraph to "yellow".** (W25 - Q3 OR b, 04 marks)

Unit 5: Server-Side Scripting with PHP

Repeated Questions:

1. **What is the difference between identical and equal operator in PHP? Explain with example. / Differentiate equality and identical operator in PHP. / Differentiate identical and equal operator in PHP.** (S24 - Q4b, 04 marks), (W22 - Q3a, 03 marks), (S22 - Q5b, 04 marks), (S25 - Q3 OR b, 04 marks), (W23 - Q5 OR b, 04 marks)
2. **Explain CRUD operations with Database in PHP. / What are CRUD operations with Database in PHP? / Describe CRUD operations with reference to database in PHP.** (S24 - Q4 OR b, 04 marks), (W22 - Q3 OR c, 07 marks), (W23 - Q5b, 04 marks), (W24 - Q3 OR c, 07 marks)
3. **Explain require() and include() functions in PHP.** (S23 - Q5a, Not Specified), (S25 - Q5a, 03 marks)
4. **Explain session in PHP with example. / Explain Session & Cookie in PHP with proper example.** (S23 - Q5b, Not Specified), (S25 - Q4 OR c, 07 marks)
5. **Write a php program to check if number is prime or not. / Write a php program to check if number is even or not.** (S24 - Q4c, 07 marks), (S25 - Q4c, 07 marks)
6. **Explain arrays in PHP. / Explain various types of arrays in PHP. / List out types of arrays supported by PHP. Explain any one in detail.** (W23 - Q5c, 07 marks), (S24 - Q4 OR a, 03 marks), (W25 - Q5 OR a, 03 marks)
7. **Explain string functions in PHP. / List various String Functions in PHP.** (W23 - Q5 OR c, 07 marks), (S24 - Q4a, 03 marks)

Other Important Questions:

1. **Write PHP code to read data from a text file and display it in browser.** (S23 - Q5c, Not Specified)
2. **Write a php program to display today's date in dd- mm- yyyy format.** (S23 - Q5a, Not Specified)
3. **Explain index and associative arrays in PHP. / Describe associative array in PHP.** (S23 - Q5b, Not Specified), (S22 - Q5 OR b, 04 marks)
4. **Explain database connectivity in PHP with example. / Write PHP code to store user data (Name, Mobile Number) with mysql database.** (S23 - Q5c, Not Specified), (S22 - Q5 OR c, 07 marks)
5. **How Error Handling is done in PHP?** (W22 - Q1c, 07 marks)
6. **How to Get Last ID in PHP?** (W22 - Q2c, 07 marks)
7. **Explain the predefined and user defined functions in PHP with an example.** (S24 - Q4 OR c, 07 marks)
8. **What is use of "break" and "continue" statements in PHP scripts?** (S25 - Q4 OR b, 04 marks), (W24 - Q5a, 03 marks)
9. **Explain features of PHP. Discuss various types of control statements in PHP. / Describe features of PHP. / What is PHP? List out few features of PHP.** (W24 - Q5 OR c, 07 marks), (S22 - Q5a, 03 marks), (W25 - Q5a, 03 marks)
10. **Write a PHP program to find whether entered year is leap year or not.** (W24 - Q5b, 04 marks)
11. **Explain date() function in PHP.** (W24 - Q5 OR a, 03 marks)
12. **Write a PHP script to print first N Fibonacci numbers.** (W24 - Q5 OR b, 04 marks)
13. **State the difference between session and cookie in PHP.** (W23 - Q5a, 03 marks)
14. **What PHP can do with header() command?** (W23 - Q5 OR a, 03 marks)
15. **Write PHP code to read information from File1.txt and write on File2.txt. / Write PHP script to read and write a text file.** (S22 - Q5c, 07 marks), (S25 - Q5 OR c, 07 marks)
16. **Describe various types of control statements in PHP. / List out and explain conditional statements in PHP.** (S22 - Q5 OR a, 03 marks), (W25 - Q4 OR c, 07 marks)
17. **Explain the operators supported by PHP.** (W25 - Q5c, 07 marks)
18. **Discuss data types supported by PHP.** (W25 - Q5 OR c, 07 marks)
19. **What is Cookies? How it affects system?** (W22 - Q5b, 04 marks)

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