

Unit-1 Introduction

1. What do you mean by browser? Explain HTTP and FTP.
2. What components are used by modern email?
3. Differentiate static and dynamic websites.
4. What are the problems with FTP (file transfer protocol)?
5. If in the response to GET /index.html HTTP/1.0 returns HTTP/1.1 200 OK. What is the interpretation? What other error codes can be returned?
6. What is HTTP? How do browser and server communicate using HTTP request and response? Explain with example.
7. Explain the architecture of the web browser.
8. Explain following protocols.
 1. HTTPS 2. FTPS
9. Give full form of following acronym.
 - 1) HTTP 2) SOAP 3) DTD
 - 2) DOM 2) TCP 3) RSS 4) ISP 5) XSD 6) HTTP
10. Explain types of servers and frameworks.
11. List and explain the website design principles.
12. Explain the points which should be considered for planning a website. Or Explain different website designing issues.
13. Discuss the following with respect to Web design.
 - Effective navigation
 - Browser compatibility issue and its possible solution.
 - Bandwidth & cache
 - Look & feel
 - Display resolution
 - Web site theme
 - Make design user centric
 - Site map
14. What is navigation? Discuss the characteristics of effective navigation. Also write code of html page to open a link in a new browser window.
15. How do you identify the contents for your website? How do you organize them for easy and quick access? Discuss with some real example.

Multiple-Choice Questions

1. The best way to make your Web page portable across browsers is to
 - (a) Test it on most browsers
 - (b) Use features which are common to all the browsers
 - (c) Follow the standards
 - (d) All of the above
2. If a Web page using CSS is not loaded by the browser properly then it is
 - (a) A browser compatibility issue
 - (b) A validation problem
 - (c) A standard problem
 - (d) None of the above
3. Look and feel of the Web site means
 - (a) Web site theme
 - (b) Web site design
 - (c) Overall appearance of the Web site
 - (d) All of the above
4. Web typography expresses
 - (a) Structure
 - (b) Emotion

- (c) Both
(d) None
5. What makes the presentation of the Web site effective?
(a) Visual structure of the Web pages
(b) Navigation links
(c) White spaces
(d) All of the above
6. Which of the following technique is used to design page layouts?
(a) Table tag of the HTML
(b) CSS
(c) Any
(d) None
7. Which of the following criteria is important to make Web design user-centric?
(a) Whether a page is designed for scanning
(b) Whether a page is designed for reading
(c) Organization structure of the information
(d) All of the above
8. If _____ step is well defined, rest of the steps for planning a Web site are clear and easy to follow.
(a) Objective and goal
(b) Audience profile
(c) Contents of the site
(d) None of the above
9. What is most important to publish your Web site?
(a) Web site design
(b) Use of latest features
(c) Registering domain name
(d) Organizing files
10. For easy access and surfing of Web site for average users, which of the following design issue should be strong?
(a) Page layouts
(b) Navigation
(c) Look and feel
(d) Presentation

Multiple-Choice Questions

1. Each resource in Internet is identified by an
 - (a) MAC address
 - (b) IP address
 - (c) Device address
 - (d) None of the above
2. DNS stands for
 - (a) Device Number System
 - (b) Domain Number System
 - (c) Domain Name System
 - (d) None of the above
3. Which of the two following layers are at the heart of the Internet?
 - (a) Data Link and Transport
 - (b) Transport and Application
 - (c) Application and Network
 - (d) Transport and Network
4. Which of the following protocol deals with the file transfer?
 - (a) FTP
 - (b) Telnet
 - (c) HTTP
 - (d) All of the above
5. Which of the following is the most important protocol for WWW?
 - (a) FTP
 - (b) SMTP
 - (c) HTTP
 - (d) All of the above
6. Which of the following is not an Email-related protocol?
 - (a) SMTP
 - (b) POP3
 - (c) TCP
 - (d) All are email protocol
7. Which of the following HTTP error code indicates page not found?
 - (a) 404
 - (b) 200
 - (c) 500
 - (d) None of the above
8. Web browser works as
 - (a) Web client
 - (b) Web server
 - (c) Both
 - (d) None
9. To request for a page on WWW in Internet, you need to specify
 - (a) Page address
 - (b) File name of a page
 - (c) URL
 - (d) Any of the above
10. URL stands for
 - (a) Uniform Resource Location
 - (b) Uniform Resource Locator
 - (c) Uniform Reserve Location
 - (d) None of the above

Unit-2 HTML

1. What is HTML form? Design a simple HTML form for registration of a student.
2. What the difference is between get & post method? Give the case where we can use this method.
3. Explain ordered and unordered list with example
4. What do you mean by Metatags? Explain different Meta element with example.
5. Write the HTML snippet to show each letter of a word with new color, giving a rainbow effect
6. Explain the following with example
 - (i) Unordered lists
 - (ii) Ordered lists
 - (iii) Nested lists
 - (iv) Definition lists
7. What is Metadata? Where it is included in HTML and XHTML? Explain with example how Metadata is included in a document?
Also show how can following be achieved with the help of Metadata?
 - (i) Stop the page from being listed.
 - (ii) Set an expiration date
 - (iii) Stop the browser from caching a page.
 - (iv) Give a context for date so that it can take format MM-DD-YYYY and DD-MM-YYYY
8. Explain the concept of irregularly shaped tables. Write the HTML snippet to get the following output and properly defined headers.

	Exam Time table		
	Green Park	Oxford circus	Euston
12/10/2012	WT	TOC	CG
13/10/2012	TOC	CG	WT

9. What is the meaning of the following?

```
<meta name="robots"
content="noindex,nofollow"/><meta http-
equiv="pragma", content="no-cache"/>
```
10. Which HTML tags should be used to get following output? write a HTML to program to get following output.

	Time Table		
	SEMESTER II	SEMESTER IV	SEMESTER VI
Monday	Computer programming	Microprocessor	Computer Graphics
Tuesday	Computer programming	UML	Security

What is the use of Border,width and Cellpadding attributes used in the table?

11. How an inline frame be embedded on a page with graphics and text?
12. Write a form to collect details of a user such as name, address, radio button to

choose subject of book he wants to buy, Dropdown to choose favorite author, comments for the last book he read. What is the use of <fieldset>?

13. Show the use of the HTML table tag to design the tables with different requirement with example.
14. Differentiate between HTML and XHTML. Write XHTML to generate table having following structure:

First	Second	Third
Computer	Civil	
Result		:

15. Explain the following HTML tags.
 <dl></dl>
 <input type="file"/>
16. What are non-Semantic Elements? Explain <div>, with example.
17. Explain semantic Elements of Html5 with example
 (<article>,<aside>,<details>,<figcaption>,<figure>,<footer>,<header>,<main>,<nav>,<section>,<summary>).
18. Explain New attributes of form elements like number, date, time, calendar,datetime, url, week, email, search, and range etc. with example.
19. Explain multimedia elements<audio> and <video> with example.

UNIT-3 CSS

1. What is CSS? Explain the different types of css?
2. Define CSS. Enlist and explain methods of using CSS in web page. Specify the CSS to provide; link: after visited blue color and before visited red color, table with odd rows white and even rows blue color
3. Define a class which defines a text alignment style to be left. Show how this same style can be applied to multiple tags?
4. Write cascading style sheet to get following formatting for the paragraph.
Text color-green
Text-indentation – 2 cm
Font-courier
Font style-italic
Text case-uppercase
5. Write the following styles in separate CSS file and also show how to link this CSS file in HTML file and show use of styles.
 - (i) The headings should have normal font style and font's size should be 120%
 - (ii) Define a class arial for paragraph which defines font family arial and font style bold.
 - (iii) Apply a background color yellow and apply a background image "brown tile.jpg"
6. What is the difference between class and id? How can a style rule be defined with an id red heading that gives red color to heading h1 with text of heading right aligned?
What would be the output of the following code in relation to style defined in this problem?
<h2 id="redheading"> This is red heading</h2>
<p id="redheading"> This is red heading</p>
<h1 id="redheading"> This is red heading</h1>
7. How can you do following with cascading style sheet?
 - a. Text Decoration
 - b. Text Indentation
8. How can a style sheet be linked to a web page or how a cascaded style sheet be embedded within a document? With the help of cascaded style sheet change background color. What changes are to be done to set an image as a background? Manipulate a background image so it can be repeated over an area.
9. What is CSS? Explain different ways to write the CSS and show the importance of "id" and "class" in CSS. Also explain Pseudo class with example.
10. Explain CSS padding and margin with example.
11. What is positioning in CSS?. Explain it with example.
12. Explain css list, Display, overflow, Z-index, float properties css border properties with example.

13. Explain Max-width, opacity, CSS rounded border, border image, gradient, shadow properties with example.
14. What do you mean by CSS units? Explain absolute (px, pt), relative (% , em, vw) with example.
15. Explain CSS 2D and 3D transformations, Transition and Animations with example.
16. Explain Responsive Web site design with CSS. What do you mean by viewport? Design (write a code) a responsive web page with the use of properties like Gridview, images
17. Explain the following concept in CSS:
 - CSS variables
 - Box-sizing, Media queries
 - Flexbox, CSS grid (display: grid and other relevant properties)

Unit-4 Javascript

1. What is document object model? Explain document object with example.
2. Explain user defined objects in JavaScript with example.
3. Explain DOM structure of HTML. Write using JavaScript: how to know which mouse button was clicked, number of elements in form, and write hello world.
Define DHTML. Explain onLoad, onBlur, image preloading, change image size, mouse cursor position.
4. Differentiate between server side and client side scripting languages. Write HTML and JavaScript to take input for loginname, password, birthdate, email address, phone no. and validate them.
5. Write an HTML file with Javascript that finds position of first occurrence of vowel “a”, last occurrence of vowel “a” in a given word and returns the string between them. For example, ajanta- then script would return first occurrence of “a”-that is position 1 and last occurrence-6 and string between them is “jant”.
6. Write a JavaScript that handles following mouse events. Add necessary elements.
 - (i) If the mouse is over the heading heading should turn yellow and if the mouse goes out of the heading it should turn black.
 - (ii) If find time button is clicked show time and date information.
 - (iii) If button named “red” is clicked, background should change to red and
If button named “green” is clicked, background should change to green.
7.
 - (i) What are the advantages and disadvantages of client side scripting?
 - (ii) How user defined objects can be created in JavaScript? Describe the way in which property values can be added to the object.
8. Write a JavaScript that handles following mouse events. Add necessary elements.
 - (i) JavaScript gives the key code for the key pressed.
 - (ii) If the key pressed is “a”, “e”, “i”, “o”, “u”, the script should announce that vowel is pressed.
 - (iii) When the key is released background should change to blue.
9. Write a JavaScript to print characters of a string at odd positions.(for example for the string India, I, d and a should get printed).
10. Write a JavaScript to take 2 digit number and then separate these 2 digits, then multiply first digit by itself for second digit times.(for example, 23 should be separated as 2 and 3. 2 should multiply with itself 3 times).
11. Explain document object in JavaScript.
12. How user defined objects are created in JAVAScript? How a constructor can be used to

populate data in the object?

13. Show the use of events to change background color with DHTML. If mouse button is pressed, background color should be red. If mouse button is released up, background color should be yellow.
14. Write a JavaScript that uses function to calculate how many days are left in your birthday?
15. Write a JavaScript, that uses a loop that searches a word in sentence held in an array returning the index of the word.
16. Explain the Document Object Model. Explain the explain document object with example.
17. Show the use of events for the following with example.
 - (i) Trap the exiting of the user from a page.
 - (ii) Show the heading. When the mouse is over the heading the background color should be yellow and when the mouse goes out of the heading, color should change to black.
18. Write an HTML and JavaScript program which accepts N as input and displays first N Fibonacci numbers as list.
19. What is JavaScript event? List the major events and show use of atleast one event by writing JavaScript code.
20. Design an login form using HTML and JavaScript with following validations on password field : minimum length 8 characters, it should have some special character.
21. Why do you need validation? Show the use of regular expression in JavaScript to validate the email address with example.
22. What are JavaScript objects? List the important built-in objects. How can you write your own object?
23. Explain the event handling in JavaScript with simple example.
24. Explain use of Let, Strict, Const keywords in javascript.
25. Explain the use of Arrow, Async and Await Function