105: Internet and Web - I

Unit-I   **Concept of Internet (Book – 1)**   **[20%]**

A brief Introduction to the Internet: Computer Networks, Internet, URL (Uniform Resource Locator), Internet Service Provider, Intranet, Extranet, Virtual Private Network.
Application of Internet: World Wide Web, Search Engines, News groups, Electronic Mail, Web Portal, Chat, Video Conferencing, FTP, Remote Login, E-Commerce, E-Learning, E-Governance, E-Banking.

Unit-II   **Static Web Page Development (Book - 2)**   **[40%]**

Basics of HTML: What is Internet Language?, Understanding HTML, Create a Web page, Linking to other Web Pages, Publishing HTML Pages, Text Alignment and Lists, Text Formatting Fonts Control, Email Links and link within a Page, Creating a Table, Creating HTML Forms, Creating Web Page Graphics, Putting Graphics on a Web Page, Custom Backgrounds and Colors, Creating Animated Graphics.

Unit-III   **Dynamic Web page Development (Book – 2)**   **[20%]**

Cascading Style Sheet: CSS, Defining Style with HTML Tags, Features of Style Sheet, Style Properties, Style Classes, External Style Sheet

Unit-IV   **JavaScript (Book-3)**   **[20%]**

Introduction to JavaScript: Writing First Java Script, External JavaScript, Variables: Rules for variable names, Declaring the variable, Assign a value to a variable, Scope of variable, Using Operators, Control Statements, JavaScript loops, JavaScript Functions: Defining a Function, Returning value from function, User define function.

Text Books :
1. Internet and Web Design
   Based on DOEACC III Revised syllabus 'O' Level
   Mac Millan India Ltd.
2. Teach Yourself HTML 4 in 24 Hours By Dick Oliver
   (Tech media) 4th edition
3. The Complete Reference JavaScript
   By Thomas Powell & Fritz Schneider
   2nd Edition.

Reference Books :
1. Online Help
2. HTML and CSS
   By Dick Oliver and Michael Morrison (Pearson Education) 7th edition
3. HTML, DHTML, JavaScript, Perl CGI
   By Ivan Bayross(BPB) 3rd Edition
4. CSS
   By Kynn Bartlett(Pearson Education)2nd Edition
5. Introduction to Internet & HTML Scripting
   By Bhaumik Shroff
   Books India Publication 3rd Edition.

(Practical List)

HTML

1. Develop a HTML document for a web page of your favorite teacher.
   Design the page with an attractive background color, text color and
   background image.
2. Develop a HTML document for a web page of your favorite National Leader. Design the page with an attractive color   combination, with suitable headings and horizontal rules.
3. Write a HTML document to create following Ordered and Unordered list

>
> Aircraft Types
> * General Aviation (piston-driven engines)
>   1. Single-Engine Aircraft
>   1. Tail Wheel
>   2. Tricycle
>   2. Dual-Engine Aircraft
>   1. Wing-mounted engines
>   2. Push-pull fuselage-mounted engines
>
> * Commercial Aviation (jet engines)
>   1. Dual-Engine
>   1. Wing-mounted engines
>   2. Fuselage-mounted engines
>   2. Tri-Engine
>   1. Third engine in vertical stabilizer
>   2. third engine in fuselage

4. Write a HTML document with a use of Table Tag to print your Bio-Data
5. Write a HTML document with a use of Table Tag to print your Telephone Bill.
6. Write a Link tags to open the particular document in following format.

Physics.html	Welcome.html	Maths.html
Chemistry.html		Computer.html
Zoology.html	Heading.html	
Biology.html		Account.html
PICTURE.html		

7. Create a HTML document with following criteria.
   1. Create your Home Page with links to various other pages (e.g Table of Content, Feedback Form, Hobbies, Achievement, Photo
      Gallery). Name the first page as default.htm
   2. Include Feedback form and a Table of Contents page.
   3. Insert an image in the home page and link it to the Table of Content Page.
   4. You should be able to navigate to all the pages mentioned on the Table of Content from any of the other page, hence
      create proper links on each page.
   5. Use the different types of fonts and colors for different pages. CSS

1. Create a Internal CSS to give the following effects to your HTML document
        - Set the background color
        - Set an image as the background

- Repeat a background image vertically
- Set a fixed background image (this image will not Scroll with the page)

2. Create a External CSS to give the following effects to your HTML document
- Set the color of the text
- Specify the space between characters
- Align the text
- Decorate the text
- Indent text
- Control the letters in a text

3. Write one example of Style Sheet which uses both Internal CSS and External CSS.

JavaScript
1. Create a JavaScript code to display any message.
2. Create a JavaScript code using Arithmetic Operator, Assignment Operator, Comparison Operator, Logical Operator and String Operator.
3. Create a JavaScript code using Control Statements.
4. Create a JavaScript code to display

5 * 1 = 5

5 * 2 = 10

.   .

.   .

5 * 10 = 50 using 'for loop'.

5. Create a JavaScript code using User Defined Function which will calculate the area of circle.

6. Write a JavaScript code to change the background color of the Web   Page.

7. Write a JavaScript code to display Factorial of the given number.