Part -1 : HTML

1. **Basics of HTML**
    a. Title, body, bgcolor, background
    b. Link, alink, vlink
    c. Text, Formating of Text, Headings(1 to 6)
    d. Formating tags, Bold, Italics, strong, Underline, Paragraph, Em, Br, Hr, Big, Sub, Sup, Del
    e. Font tag, Face, Size, Color
    f. (Note: use style attribute as font tag not supported in html5)
    g. Special Characters:
    h. <,>,&,1/2,1/4,@,quotes,registration mark etc...
    i. Images: Src, Width, Height, Border, Alt

Case Study-1:

1. Design a single webpage for a store listing the products and services offered. The store sells computers and related products. The site should contain images explaining the products graphically.
2. Create an html page with following specifications
    a. Title should be about mycollege
    b. Put the image in the background
    c. Place your College name at the top of the page in large text followed by address in smaller size
    d. Add names of courses and branches offered each in a different color, style and typeface.

Advanced HTML:

1. links-anchor tag
2. lists-unordered,ordered,definition lists
3. tables-table,tr,td,borders,colspan,rowspan and tables formats(cell size,color,font size and color)
4. Frames-frame,noframe,frameset,margin,height,width
5. Forms-form,input,textbox,radiobutton,checkbox,submit,reset,date,password,numbeselect,textarea,option
6. **Create the following table**

Here your Header goes!!!		
Cell 1	Cell 2	Cell 3
Cell 1	Cell 2	Cell 3
Your Footer goes here!!!		

7. Create the following webpage using lists.

My Favorite Links!

A. Great Car Sites
- Mercedes-Benz USA
- Mercedes-Benz World Wide
- Kelly Blue Book New and Used Car Values

B. Useful Web Sites
1. Cool Text Image Generator
2. RGB Hex Triplet Color Chart
3. Webopedia Online Computer Technology Dictionary

8. Write the code to develop a Web page, as shown below, using frames

This is Frame1
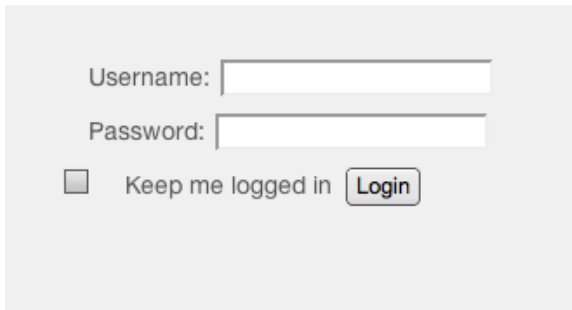
This is Frame2   This is Frame3

9. Design the following web page.

Registration form

Enter your first name	enter your first name
Enter your last name	
Enter your password	
ReEnter your password	
Enter your email	
Enter your mobile	
Enter your address	
Select your gender	male ○ female ○
Select your hobbies	hobby1 ☐ hobby2 ☐ hobby3 ☐
Select your DOB	mm/dd/yyyy
Select your Country	Select your country ▾
Upload your pic	Choose File No file chosen
	Save My Data Reset Data

10. Create simple login webpage as shown below.

Username: [   ]
Password: [   ]
☐ Keep me logged in [Login]

Part – 2: Linux Commands

Write syntax, definition for each command.

1. Sudo and apt-get
   a. Sudo apt-get update
   b. Sudo apt-get upgrade
   c. Sudo apt-get install
   d. Sudo apt-get remove
2. Ls
3. Cd
4. Pwd
5. Cp
6. Mv
7. Rm
8. Mkdir
9. History
10. Df
11. Du
12. Free
13. Uname –a
14. Top
15. Man
16. Info
17. Who
18. Passwd
19. Whatis
20. touch
21. Find
22. Wc
23. File permissions (chmod permission filename)
24. Tar
25. Zip

Part – 3: Server Connections

1. Write definitions-client, server, website, webpage
2. List out different servers
3. Write the differences between html and php
4. Write database connection functions-mysqli_connect,isset,mysql_query,fetch_array
5. Write server side code for registration and login pages
6. Write basic mysql queries.

Part – 4: Latex

1. Documentclass-papersize,type
2. Preamble-
   usepackage(xcolor,enumitem,amsmath,multirow,graphicx,geometry),title,date,author,thanks
3. Main Document-begin,end,maketitle,newpage,pagenumbering(styles)
4. Font family,styles,size(tiny to Huge)-italic,bold,underline,emph
5. special symbols-(>,<,#,@ and mathematical symbols)
6. Font format-fontsize,selectfont
7. Comments
8. Paragraphs-parindent,setlength,noindent
9. Colors-pagecolor,textcolor,colorbox
10. Lists-enumerate,itemsize,description,setcounter
11. Table of contents-section,subsection,subsubsection
12. Table-tabluar,hline,vline,mulitrow,multicolumn
13. Mathematical symbols and equations
14. Images-graphicspath,includegraphics-height,width,angle

Design the following document using Latex commands:

We have now added a title, author and date to our first LaTeX document! Some of the greatest *discoveries* in science were made by accident. *Some of the greatest* discoveries *in science were made by accident.* **Some greatest** *discoveries* **in science were made by accident.**

- The individual entries are indicated with a black dot, a so-called bullet.

- The text in the entries may be of any length.

1. This is the first entry in our list

2. The list numbers increase with each entry we add

The mass-energy equivalence is described by the famous equation

$$E = mc^2$$

discovered in 1905 by Albert Einstein.

cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

We write integrals using $\int$ and fractions using $\frac{a}{b}$. Limits are placed on integrals using superscripts and subscripts:

$$\int_0^1 \frac{dx}{e^x} = \frac{e-1}{e}$$

1 Introduction

2 Second Section

2.1 First Subsection

2.1.1 second Section