

- N. B.: (1) All questions are compulsory.  
(2) Make suitable assumptions wherever necessary and state the assumptions made.  
(3) Answers to the same question must be written together.  
(4) Numbers to the right indicate marks.  
(5) Draw neat labeled diagrams wherever necessary.  
(6) Use of Non-programmable calculators is allowed.

1. Attempt any three of the following:

- a. Write a short note on File Transfer Protocol.
- b. Explain the working of a web server.
- c. Write a short note on E-mail.
- d. Explain the following CSS Properties with suitable example:
  - i. background-color
  - ii. text-align
  - iii. letter-spacing
- e. How are Ordered Lists created in HTML? Explain with the help of an example.
- f. Write HTML code to design a web page using any five formatting tags.

15

2. Attempt any three of the following:

- a. How is a clickable area (hotspot) created in a client-side image map? Explain with an example.
- b. Write a short note on Navigation Bar.
- c. Explain the following Semantic Tags with example:
  - i. `<footer>`
  - ii. `<article>`
  - iii. `<nav>`
- d. Explain the tags / attributes with suitable example for applying following effects in a table:
  - i. Creating header cell
  - ii. Increasing space between cells
  - iii. Adding border
- e. Write HTML code to design the following web page:

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Name :

Pizza Topping :  Olives  Onion  Capsicum

Pizza Sauce :

Pizza Crust :  Thin Crust  Cheese Burst

Delivery Address :

f. Explain the `<video>` tag with all its attributes.

15

3. Attempt any three of the following:
- Explain short-circuit evaluation in JavaScript.
  - Write a JavaScript program to print Fibonacci Series.
  - Explain the different conditional statements used in JavaScript.
  - List and explain the methods of Date Object.
  - What is a Regular Expression? Explain the bracket expressions used with RegExp Object.
  - What are event handlers? List and explain various types of form events.

15

4. Attempt any three of the following:
- What is type casting in PHP? Explain with the help of an example.
  - Write a PHP program to display the following binary pyramid

```

1
0 1
1 0 1
0 1 0 1
1 0 1 0 1

```

- Explain the difference between break statement and exit statement with the help of an example.
- Explain the string functions that return the position of first and last occurrence of a string inside another string. Give suitable examples.
- What is an array? Explain the different types of arrays.
- How is information passed between pages in PHP using method POST? Explain with the help of an example.

15

5. Attempt any three of the following:
- Explain the SQL queries to create a table and insert a row in the table.
  - Write a short note on cookies in PHP.
  - Write a PHP program to create a database named "College". Create a table named "Student" with fields (sno, sname, percentage). Insert 3 records of your choice. Display the names of the students whose percentage is between 35 and 75 in a tabular format.
  - How mail is sent using PHP?
  - What is a character class in a regular expression? List and explain the pre-defined character classes.
  - Design a PHP page for authenticating a user.