



- 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: 15
- What is E-Commerce? Explain the advantages, disadvantages and types of E-Commerce.
 - Differentiate between Internet and WWW.
 - List and explain the common features used by all major browsers.
 - Explain the use of RGB Color Values and Hex Values in changing the color of an element in HTML. Give suitable examples.
 - Name the tag used to create a hyperlink. Explain its attributes. Give an example to create a relative hyperlink.
 - Write HTML Code to design the following web page:

MOBILE OPERATING SYSTEMS

- Android
- iPhone
- Symbian

MOBILE MANUFACTURERS

- Samsung
- Apple
- HTC

2. Attempt any three of the following: 15
- Design an HTML page with a client-side image map having clickable areas of shapes – rectangle, polygon and circle.
 - What is the use of redirection to another URL? Design an HTML page that automatically redirects the user to page “fy.html” after 5 seconds.
 - Explain the following Semantic Tags with example.
i. <header> ii. <nav> iii. <figcaption>
 - Write HTML Code to design the following web page:

Weather	
City	Temperature
Mumbai	33
Delhi	20
Kolkatta	28
Chennai	30

- e. How are the following controls created on a form? – Checkboxes, Search Field, Date Field, Submit Button
- f. Explain the <audio> tag with all its attributes.

3. Attempt any three of the following:

15

- a. What is an assignment operator? Explain any four assignment operators with example.
- b. Write a JavaScript program to accept a number from the user and display the sum of its digits.
- c. How are statements labelled in JavaScript? Explain with the help of an example.
- d. What is an Array? Explain any four methods of Array Object with examples.
- e. Explain the following methods of Math object with example – ceil(), max(), random(), round(), sqrt().
- f. What are events? Explain the following events:
 i. onMouseOut ii. onKeyUp iii. onSubmit iv. onLoad

4. Attempt any three of the following:

15

- a. Explain the different data types in PHP.
- b. Write a short note on functions in PHP.
- c. Explain the following string functions with example:
 i. ucfirst() ii. str_shuffle() iii. strrev() iv. str_replace() v. substr()
- d. Write a PHP program that removes the first and last element of a one-dimensional array and then displays the remaining elements of the array.
- e. Write a PHP program to find the greater of 2 numbers. Accept the numbers from the user.
- f. Explain the superglobals in PHP.

5. Attempt any three of the following:

15

- a. Write a PHP program that uses regular expression functions to display all the uppercase characters from the string “This is a demonstration of PHP Regular Expression”.
- b. Write a short note on sessions in PHP.
- c. Write a PHP program to accept Roll No., Student Name and Percentage from the user and save the values in table Student (rno, sname, percentage) in database College.
- d. Explain the mail() function.
- e. Write a PHP program to create a cookie using PHP and retrieve its value.
- f. Explain the following PHP/MySQL functions with example:
 i. mysql_query () ii. mysql_error()