

- 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

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- 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()