

**Q.P. Code: 22588****(2½ Hours)****[Total Marks: 75]**

- N.B. 1) All questions are compulsory.  
 2) Figures to the right indicate marks.  
 3) Illustrations, in-depth answers and diagrams will be appreciated.  
 4) Mixing of sub-questions is not allowed.

**Q. 1 Attempt All(Each of 5Marks)****(15M)****(a) Multiple Choice Questions****(5M)****i. HTML web pages can be read and rendered by :-**

- A. Server B. Web browser C. Interpreter D. Client

**ii. If the image cannot be displayed then \_\_\_\_\_ specifies an alternate text for an image.**

- A. text attribute B. caption attribute C. value attribute  
 D. alt attribute

**iii. In JavaScript, to check if "a" is not equal to "null"**

- A. if(a!=null) B. if(a!null) C. if(a!==null) D. if(a!null)

**iv. Ajax made popular by?**

- A. Google B. IBM C. Microsoft D. Sun Microsystems

**v. Which of the following are correct ways of creating an array in PHP**

i) city[0] = "mumbai" ii) \$city[] = array("mumbai")

iii) \$city[0] = "mumbai" iv) \$city = array("mumbai");

- A. iii) and iv) B. ii) and iii) C. Only i) D. Only ii)

**(b) Fill in the blanks****(5M)**

(.css, <td leftalign>, indexOf, www, !(Exclamation), .cas, <td align = "left">, valueOf, \$(Dollar), HTTP)

- External Style Sheets are stored in file with extension \_\_\_\_\_.
- \_\_\_\_\_ HTML tag to left-align the content of a cell.
- \_\_\_\_\_ Method returns the index within the calling String object of the first occurrence of the specified value in JavaScript.
- \_\_\_\_\_ Server supports AJAX.
- In PHP, language variable starts with \_\_\_\_\_.

**(c) Write Answers in two lines.****(5M)**

- What is difference between ordered list and unordered list?
- What do you mean by CSS?
- getDate() and getDay() functions in JavaScript
- What is XML Element?
- Give the purpose of two event methods in jQuery.

**Q. 2 Attempt the following (Any THREE)(Each of 5Marks)****(15M)**

- Explain any five text formatting tags in HTML5.
- How to create links in HTML5? Explain its tags with an example.
- Define image map? Explain <img> tag with four attributes.

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- (d) Explain following CSS background properties with an example:-
- background-repeat
  - background-position
  - background-color
- (e) Define Style sheet. What is the purpose of following CSS Text style properties in HTML5?
- text-align
  - text-transform
  - text-decoration
  - color
- (f) Give the complete form code for following in HTML5:-

**HTML Login Page**

Username:

Password:

**Q. 3 Attempt the following (Any THREE) (Each of 5Marks) (15M)**

- (a) What is the use of Math object in JavaScript? Explain its four methods with example.
- (b) Explain with an example the purpose of following popup boxes:-
- alert
  - confirm
  - prompt
- (c) Define DTD and its use. How to create Internal DTD in XML? Give example.
- (d) What is XML? Discuss its any four features.
- (e) Describe Document Object Model with diagram.
- (f) Write a JavaScript code to input a number from user into variable n, display table of factorials up to n.

**Q. 4 Attempt the following (Any THREE) (Each of 5Marks) (15M)**

- (a) What is XMLHttpRequest object? Explain the following properties of XMLHttpRequest object:-
- onreadystatechange
  - readyState
  - responseText
  - status
- (b) What is a PHP session? How to start, get, modify and destroy a PHP session? Give example.
- (c) Define jQuery. Give its any three features and basic syntax with an example.
- (d) How does AJAX handle asynchronous data transfer?
- (e) Which are the methods for creating animation effects in jQuery? Explain any two methods with example.

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- (f) Write a PHP code to check number entered through HTML page is positive, negative or equal to zero. Display appropriate message.

**Q. 5 Attempt the following (Any THREE) (Each of 5Marks) (15M)**

- (a) Explain the following table tags in HTML5 with example:-
- `<table>`
  - `<tr>`
  - `<th>`
  - `<td>`
  - `<table align="right">`
- (b) What is the use of the following CSS selectors? Explain with example:-
- `.class`
  - `#id`
- (c) What is the purpose of Window object in JavaScript? Explain its any two properties and methods with code snippet.
- (d) Diagrammatically explain AJAX Web Application Model.
- (e) Write a PHP code to create an array of five student names and display its values using foreach loop.