

(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. The tag used to create a client side image map
A.<MAP> B.<USEMAP> C.<LINK> D. None of these
- ii. In JavaScript, "return " and "case " are
A. Keywords B. Data-types C. Prototypes D. Declaration statements
- iii. Which of the following sets what kind of line decorations are added to an element, such as underlines, overlines, etc?
A. text-style B. text-decoration C. text-line D. text-decoration-line
- vi. The global object constructor for strings or a sequence of characters.
A. String B. RegExpCalss C. RegExp D. StringExp
- v. What will be the output of the following PHP code?

```
<?php  
$a = 10;  
$b = 10;  
$c = 10;  
echo ($a === $b and $a == $b);
```


A. ?>True B. Error C. False D.1

(b) Fill in the blanks

(5M)

(\$ (Dollar), object-based, verify, Javascript and Java, opening new document, objective, transport, Javascript and XML, _self, client side, exponentiation, Asynchronous JavaScript and XML)

- i. JavaScript is often used for _____ validation.
- ii. In PHP language variable starts with _____.
- iii. In PHP script operator '***' indicates _____.
- iv. AJAX stands for _____.
- v. Target attribute _____ is used to display response in same frame.

(c) Write Answers in two lines.

(5M)

- i. What is the role of CSS selector?
- ii. Explain <select> tag
- iii. PHP session
- iv. State any two functions from the JavaScript Math object.
- v. Table tag in HTML

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

- Explain any five text formatting tags in HTML5.
- What is Stylesheet? List its types. Explain any ONE with an example.
- Explain the following tags in HTML5 with an example:-
 - `<img>`
 - `<link>`
 - `<div>`
 - `<span>`
 - `<title>`
- Which are the CSS properties to work with background of a Page in HTML? Give its purpose with an example.
- Write HTML code to generate a form accepting the user last name (textfield), contact number(textfield), gender (radiobutton), hobbies (checkbox), country (dropdown) and buttons for resetting and submitting the form.
- Write an HTML and CSS code for the following:-

	Average Marks		Aggregated Average Marks
	Theory	Practical	
Male students	70	78	74%
Female students	80	81	82.5%

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

- Explain the following with valid example:
 - `alert()`
 - `prompt()`
- What is the purpose of Location browser objects in JavaScript? Explain its three properties.
- Write a short note on XML DTD.
- Explain the following elements w.r.t XSLT with an example:
 - `xsl: attribute`
 - `xsl:value-of`
 - `xsl: attribute-set`
- Describe Document Object Model with diagram.
- Write a JavaScript code to read a number from a text filed and check if it is Armstrong Number or not (Assume the input to be always three digit number).

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

- Explain any two functions used for animation in jQuery.
- Write a PHP code to check given number is positive, negative or Zero. The number is to be accepted from HTML form.

- (c) Explain the following jQuery traversing methods:-
- filter()
 - end()
 - contents()
 - find()
 - first()
- (d) What is the purpose of XMLHttpRequest object in AJAX? How to open it in AJAX? Explain.
- (e) What is a PHP session? How to start, get, modify and destroy a PHP session? Give example.
- (f) Explain the following functions w.r.t database handling in PHP:-
- mysql_connect()
 - mysql_tablename()
 - mysql_ping()
 - mysql_list_fields()
 - mysql_drop_db()

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

- (a) Write a code using PHP and HTML to accept department id from user and display department name and address in a table.
[Table: Department {Deptid number (3), Deptname varchar (20), Deptaddress varchar2 (10)}].
- (b) Diagrammatically explain AJAX Web Application Model.
- (c) How does AJAX handle asynchronous data transfer?
- (d) What is the purpose of following CSS properties?
- text-align
 - font-style
 - border
 - font-size
 - display
- (e) Explain any five PHP Comparison Operators.
