

Group - E

8. Using PHP and MySQL develop a program to accept book information viz. Accession number, title, authors, edition and publisher from web page and store the information in a database; search for a book with the title specified by the user and display the search results with proper headings.

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9. (a) Write a PHP program to display employee details by creating database in MySQL.

- (b) What is VPN? Why VPN is required? What are the advantages of using firewall?

6 + 6 = 12**WEB TECHNOLOGY
(MCAP 2202)****Time Allotted : 3 hrs****Full Marks : 70*****Figures out of the right margin indicate full marks.***

***Candidates are required to answer Group A and
any 5 (five) from Group B to E, taking at least one from each group.***

***Candidates are required to give answer in their own words as far as
practicable.***

**Group - A
(Multiple Choice Type Questions)**

1. Choose the correct alternative for the following: **10 × 1 = 10**
- (i) Konqueror is a
 (a) Rich Internet Application (RIA) (b) Web API
 (c) Web Server (d) Web browser.
- (ii) Which variable is used to collect form data, sent with both the GET and POST methods?
 (a) \$BOTH (b) \$_BOTH
 (c) \$REQUEST (d) \$_REQUEST.
- (iii) What is the meaning of "Temporary Tables" in MySQL?
 (a) Rows returned by sub query (b) Permanent tables
 (c) Virtual tables (d) All of the mentioned.
- (iv) Which of the below statements in PHP is equivalent to \$add += \$add?
 (a) \$add = \$add
 (b) \$add = \$add + \$add
 (c) \$add = \$add + 1
 (d) \$add = \$add + \$add + 1.
- (v) Which one of the following is correct in JavaScript, with respect to creating an array?
 (a) var names=("Tom", "Jerry", "Tweety", "Sylvester");
 (b) var names=["Tom", "Jerry", "Tweety", "Sylvester"];
 (c) var names={"Tom", "Jerry", "Tweety", "Sylvester"};
 (d) var names= ("Tom"; "Jerry"; "Tweety"; "Sylvester");

- (vi) Which one of the following is the correct syntax for importing the stylesheet "demo.css"?
 - (a) @import url("demo.css")
 - (b) @import-css url("demo.css")
 - (c) @import-style url("demo.css")
 - (d) @import stylesheet("demo.css").
- (vii) What is the correct JavaScript syntax to change the content of the HTML element below?

```
<p id="test">Heritage Institute of Technology.</p>
```

 - (a) #test.innerHTML = "Hello student!";
 - (b) document.getElementById("p").innerHTML = "Hello student!";
 - (c) document.getElementById("test").innerHTML = "Hello student!";
 - (d) document.getElementByName("p").innerHTML = "Hello student!";
- (viii) What is the correct HTML for creating a checkbox?
 - (a) <check>
 - (b) <input type="checkbox">
 - (c) <checkbox>
 - (d) <input type="check">
- (ix) What does XSL stand for?
 - (a) eXtra Stylesheet Language
 - (b) eXtensible Stylesheet Language
 - (c) eXtensible Style Listing
 - (d) eXpandable Style Language.
- (x) The attribute used to define a new namespace in XML is
 - (a) xmlns
 - (b) xmlnamespace
 - (c) xmlns
 - (d) xmlnspace.

Group - B

2.
 - (a) What is meant by the term 'web technology'?
 - (b) What are the advantages and limitations of static web pages?
 - (c) Differentiate among Web 1.0, Web 2.0 and Web 3.0.

2 + 4 + 6 = 12
3.
 - (a) Discuss with an example the function of META tag in HTML.
 - (b) How can you provide a hyperlink to a section within an HTML page?
 - (c) Design an HTML form for user registration using suitable types of input element for user name, password, phone number, e-mail id, gender, and provisions for submit and reset.

3 + 3 + 6 = 12

Group - C

4.
 - (a) State the key differences between HTTP/2 and HTTP/1.x.
 - (b) What is an XML schema? Give an XML schema that contains a person's name, address and date of birth.
 - (c) Justify the need for namespaces in XML with proper example(s).
4 + 4 + 4 = 12
5.
 - (a) Compare and contrast inline CSS and internal CSS with proper examples.
 - (b) Differentiate between class selector and id selector in CSS with proper examples.
 - (c) Write CSS to achieve each of the following:
 - (i) Add a background image to an HTML page
 - (ii) Specify the font for a paragraph
 - (iii) Use an image as a list item marker
 - (iv) Rotate a paragraph by 90°.

Group - D

6. (a) Using JavaScript validate a form containing username, password and mobile number with the following validation rules
 - All the fields are to be filled.
 - Password should be 6 alphanumeric characters.
 - Mobile number should be 10 digits.
 - Username should not consist of numbers only.
 - When submitted proper validation messages are to be shown.(b) Explain the shift() and unshift() methods of an Array in JavaScript with an example.

8 + 4 = 12
7. (a) Explain the use of krsort() in PHP with an example script.
(b) What are cookies? Write a PHP script that checks whether cookies are enabled or not.
(c) What is a PHP Session? How does it work?
(d) Write a PHP script to display the session count.

2 + 4 + 2 + 4 = 12