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MCA

Paper : 3.5

(Web Technology and E-Commerce)

Full Marks : 70

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Choose the correct answer : 1×7=7

(a) Which of the following is not a valid HTML version?

- (i) HTML 1.0
- (ii) HTML 2.0
- (iii) HTML 3.0
- ~~(iv)~~ HTML 4.0

(b) Which of the following Tags is used to link a external CSS file?

- ~~(i)~~ <LINK>
- (ii) <HREF>
- (iii) <SRC>
- (iv) <A>

- (c) Which of the following JavaScript methods is used to write in a Document?
- ☒ (i) document.write()
 - (ii) prompt()
 - (iii) alert()
 - (iv) show()
- (d) To run a JavaScript file which of the following platforms is required?
- (i) Linux Kernel
 - (ii) Apache
 - ☒ (iii) Web Browser
 - (iv) HTML editor
- (e) Which of the following PHP functions is used to get Server Date and Time?
- (i) date()
 - ☒ (ii) php_date()
 - (iii) time()
 - (iv) mktime()
- (f) What is the use of simplexml_load_file()?
- (i) Create an XML file
 - (ii) Read an XML file and convert to an object
 - ☒ (iii) Load an XML file in the web browser
 - (iv) None of the above

(g) Cryptography is used in which of the following fields?

- (i) PHP-Mysql connection
- (ii) PHP-JavaScript collaboration
- ~~(iii)~~ Web Security
- (iv) All of the above

2. State whether the following is True or False :

1×7=7

- (a) Using a CSS file we can add a common style in multiple pages in a Website. T
- (b) PHP is an Open Source Technology. T
- (c) Java Servlet use lots of HTML code but less Java code. F
- (d) XML file cannot be read or write using PHP. F
- (e) HTML tags can be embedded into JavaScript. T
- (f) Tomcat runs at the 8090 port of the Apache Web Server. F
- (g) Query string can be get using PHP variable \$_GET. T

3. Fill the blanks :

1×7=7

- (a) DHTML stands for ^{dynamic} — Hypertext Markup Language.
- (b) foreach is used as an — of for loop. ^{iteration}
- (c) `<style type="—/—">` ^{text css} is used to include a CSS to an HTML file.
- (d) PHP scripts are stored at the — of the Apache Web Server. ^{document root}
- (e) In JavaScript — method returns the length of an string. ^{length()}
- (f) An XML file needs a — element. ^{root}
- (g) php.ini file holds the PHP — ^{server} information.

4. Match Column—A with Column—B :

1×7=7

Column—A

Column—B

- | | |
|-------------------------|------------------------------|
| (a) News feed ✓ | (i) Database engine |
| (b) PHP ✓ | (ii) Cascading Style Sheet |
| (c) Myisam ✓ | (iii) Web Server |
| (d) Ajax | (iv) Dynamic Website |
| (e) Java Server Page ✓✓ | (v) XML Technologies |
| (f) Tomcat ✓✓ | (vi) XML and HTTP technology |
| (g) Class and ID ✓ | (vii) JDBC |
| | (viii) ODBC |
| | (ix) Client side scripting |
| | (x) Web Browser |

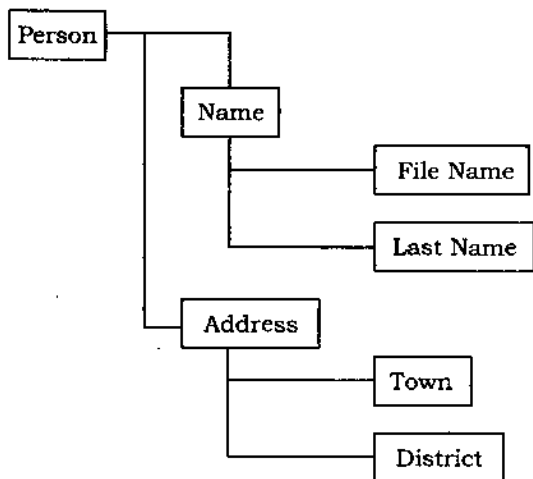
5. Answer any six of the following : 3×6=18

- (a) Design the following structure using HTML :

1		
2	3	
	4	5

- (b) List the organizational and consumer advantages of e-commerce.
- (c) What is CSS? How can you link a CSS file in an HTML file? Give example.
- (d) Write the JavaScript and HTML code to do the following :
- (i) Create a prompt box
 - (ii) Take the input from the Prompt box and display them in uppercase text
- (e) Write the use of the following PHP functions with an example :
- (i) `mysql_connect()`
 - (ii) `mysql_query()`

- (f) Design an XML file for the following tree :



- (g) What do you mean by Web Security?
- (h) How does e-business work? What are the opportunities provided by it to different business areas?

6. Answer any *three* of the following : 5×3=15

- (a) Write a JavaScript program to display all the even numbers between 20 and 200.
- (b) Explain the following HTML form attribute with a suitable example :
- (i) method
 - (ii) action
 - (iii) name

- (c) Write down the advantages and disadvantages of Internet Marketing.
- (d) What do you mean by DTD? Explain the usefulness of DTD.
- (e) Write down the different steps with proper diagram when an user request for a JSP file.

7. Answer any one of the following :

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- (a) If you are asked to develop a student information system, which will have the following features :
 - (i) A database for student information (i.e., database name is idol)
 - (ii) A table named student (rollno, name, address)

Using PHP and Mysql, write a program to connect to the database, create the above table and then insert a record to the table.

- (b) Write down the JDBC architecture with proper diagram.
