

Total number of pages-12

B16-CS (Th)

Subject Code : 34

2016

COMPUTER SCIENCE (E)

(Theory)

Full Marks : 80

Pass Marks : 24

Time : Three hours

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

Contd.

1.1. Choose the correct answer : 1×10=10

- (a) To become a member of an E-group an Internet user should have—
- (i) an IP address
 - (ii) an E-mail address
 - (iii) A Blog
 - (iv) a mobile phone
- (b) Which one is not a part of Report—
- (i) Report Header
 - (ii) Detail
 - (iii) Page Footer
 - (iv) Description
- (c) Which of the following is not a valid value for align attribute of ?
- (i) center
 - (ii) top
 - (iii) middle
 - (iv) bottom

(d) XML was not designed to :

- (i) Store data
- (ii) Carry data
- (iii) Display web pages
- (iv) Both (i) and (ii).

1-2. Fill in the blanks :

- (a) At the destination, _____ reassembles the packets into a complete message.
- (b) _____ are customized formats for adding, deleting or displaying data.
- (c) A _____ element interrupts the text and begins the text in a new line.

1-3. Write the correct **or** incorrect statements as asked :

- (a) Which of the following statements is true for cellspacing?
 - (i) The amount of space between the content of the cell and the cell border
 - (ii) The space between cells of a table
- (b) Which of the following statements about root element is false?
 - (i) The topmost element in a document is called the root element

(ii) The bottom element in a document is called the root element.

(c) Which of the following statements is true about Mirror backup method?

(i) It requires less storage space than any other backup method

(ii) It requires more storage space than any other backup method.

2. Give one word answer : 1×8=8

(a) Name the network that exists exclusively within an organization and that is based on Internet technology.

(b) Which data type stores an integer that increments or decrements automatically as records are added or deleted?

(c) Name the column in a table that contains particular information for all records.

(d) Which attribute is used to set the URL of the target resource?

(e) Which tag specifies an individual block or cell in a table row?

(f) Which attribute of <a> tag is used to specify the location of an internal reference in a document?

(g) Name the software that reads an XML document, identifies all the XML tags, and passes the data to the application.

(h) Name the term that refers to a condition of reduced concentration caused by continuously responding to electronic communication.

3. Answer **any twelve** of the following questions : 2×12=24

- (a) What is RDBMS software? Name *any one* RDBMS software.
- (b) Why caption field is used? What is the maximum number of characters it can contain?
- (c) What validation check is required to have a value more than or equal to 0 and less than or equal to 100 in the field Mark?
- (d) What are the *two* sections of query design window? Explain.
- (e) Name the appropriate section that contains the following in a report :
 - (i) Heading of the report
 - (ii) Field Name
 - (iii) Content of the fields
 - (iv) Page number
- (f) What is the difference between <title> and <head> tags?

- (g) Write the HTML tag with attributes to make the background appear yellow and text red. Also the text should appear 70 pixels from the top and 40 pixels from the left edge of the page.
- (h) What is the use of the <hr> tag? Name any three different attributes of the <hr> tag.
- (i) Differentiate between and tags.
- (j) What is the use of creating tables on a Web page?
- (k) Why is it possible to define user's own tags in XML but not in HTML?
- (l) What is the significance of root element? What is its alternative name?
- (m) What is entity? Why is it required?
- (n) What is Denial of Service attack? Give example.
- (o) What do you understand by encryption and decryption?
- (p) What is virtual school? Give its *two* features.

4.1 Answer **either A or B** :

1×5=5

- A. (a) While making a web page using HTML, Arunita wanted to draw a horizontal line across the page and the thickness being twice that of default value. Write appropriate HTML command to help her to get the result as desired.

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- (b) Vinita wants an image "xyz.gif" to be tiled to fill the entire web page and to appear at the back of the text made by using HTML. Suggest her to write the appropriate HTML command.
- (c) Madhuri wants the relative size of the text one size bigger than the default size. What attribute and what tag should she use ?
- (d) Vijay wants to start numbering in an ordered list from third small Roman numeral. Help him to write the appropriate HTML command.
- (e) Vinay wants to display some characters in a smaller font as compared to the rest of the text. Which tag should he use for this ?

B. (a) The following code intends to centralize the image pic1.gif in browser window :

1×5=5

```
<IMG src = "pic1.gif" align = center>
```

however, the desired result is not coming. Can you point out the reason for it and a solution for it ?

(b) Identify the errors in the following statement and write the correct statement :

```
<BODY textcolor = "Red" Background = "pict.gif">
```

(c) Correct the errors in the following :

```
<html> <body>
```

```
</ol>
```

```
<li> DICT </li><li>DICTION </li><li><DICTIONARY></li>
```

```
<ol start = "p" type = "5"></body></html>
```


(d) Name *any two* tags to create the following display in a web page :

5. Football

6. Cricket

(e) Identify the errors and write the corrected HTML statements :

<FACE TYPE = "Arial">

4.2 Answer **either A or B**

1×5=5

A. (a) Ratul wants to set the image "pqr.jpg" stored in "My Pictures" folder in c:\ as the background of his web page. Write HTML code to help him to do so.

(b) Rajkumar wants to send an email to def@xyz.com through his web page. Suggest him to accomplish the task.

(c) Ramcharan wants to display a table in the centre of the screen with the border of the table blue in colour and its thickness 6. Suggest him to write HTML statement for the task.

(d) Raina has a link which is in the menu window and she wants it to load a page in the main window. What should she simply add to the <a href> tag to get the desired result ?

(e) Rita wants to give the frame a scrollbar if required. Help her to get the result as desired.

- B. Observe the web page given below. Identify *any five* HTML tags used in it and write their use. 1×5=5

<p>Microsoft Office</p> <hr style="width: 20%; margin: auto;"/>
1. MS Word
2. <u>MS Excel</u>

5.1 Answer **any four** of the following : 3×4=12

- (a) Explain number addressing system of Web addressing schemes.
- (b) What do you understand by Data Validation? What is the role of Field Properties in this process?
- (c) What is an ordered list? How can you change the numbering style in an ordered list?
- (d) What is Spanning in tables? Which attributes are associated with spanning?
- (e) What is the use of the anchor <a> tag? Write the uses of the HREF and the NAME attribute of <a> tag.
- (f) What is the use of <LINK> attribute? What are the default values of LINK, ALINK and VLINK attributes?

5.2 Answer **any four** of the following :

4×4=16

(a) Define :

(i) Blogging

(ii) Chat rooms

(iii) Netiquettes

(iv) Spam

(b) Write the HTML command that will do the following using <BODY> tag :

(i) To create a white page.

(ii) To start the text 55 pixels away from the top of the page.

(iii) To set the text between the <BODY> element to be indented 45 pixels away from the left hand side of the page.

(iv) To set the colour of the visited links as green.

(c) Explain the *four* variations of the default value of an attribute in XML.

(d) What is a digital certificate? What information does it include?

(e) Draw the XML tree for the code given below :

```
<ACCOMODATION>
  <HOSTEL>
    <GROUND FLOOR>
      <ROOM>20</ROOM>
      <RENT>Rs.2000</RENT>
    </GROUND FLOOR>
    <FIRST FLOOR>
      <ROOM>10</ROOM>
      <RENT>Rs. 3000</RENT>
    </FIRST FLOOR>
  </HOSTEL>
</ACCOMODATION>
```

(f) What is spyware ? How does it get installed on your computer ?
What is Anti-spyware ?