

# SAMPLE QUESTION PAPER 2

A Sample Question Paper for CBSE Class X Summative Examination II

## Foundation of Information Technology

### General Instructions

- All questions are to be answered.
- Read the questions carefully before answering.

Time : 3 hours

Max. Marks : 90

### Section A

#### 1. Fill in the Blanks

(10 × 1 = 10)

- ..... backup saves your data from natural disasters.
- Digital code attached to a message that uniquely identifies the message is called .....
- A ..... is a device that helps connect networks that are using different protocols.
- ..... attribute has no visual effect in ordinary Web browsers.
- ..... is used to describe data and ..... is used to display data.
- The ..... attribute of the anchor element provides tooltip information for the link.
- ..... attribute of <img> tag is used to determine the vertical alignment of the text adjacent to the image.
- You can validate an XML document by using the XML validator and .....
- Browser-based XML parsers check only if the XML document is .....
- The <tbody> tag must be used after the ..... tag and before ..... tag.

#### 2. State True or False

(10 × 1 = 10)

- It is necessary to use start tag/end tag pair for empty elements.
- In HTML, the value passed to an attribute must be in double or single quote.
- XML was created so that structured documents can be used over the Web.
- URL stands for Uniform Register Locator.
- <img> tag is an empty element.
- A virus may corrupt or delete data on your computer.
- Micro viruses are created through the application programs.
- hspace attribute of <img> tag adjust a minimum space between image and text in Web page.
- The prolog is an introduction to the XML document.
- Downloading of files means transferring files from host computer to the Internet.

#### 3. Answer the following questions:

- What is chatting? Is it necessary to be online while chatting.
- What is trojan horse? How is it harmful to your computer?

(2)

(2)

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- (c) Create an XML markup to represent a message sent on 9 July, 2016 to Lokendra and Durgesh by Arif. The message is "Done successfully". (2)
- (d) Write the full form of (i) alink (ii) vlink (iii) HTML (iv) XBM (2)
- (e) Write the HTML code to send E-mail to smith@ginz.com from your Web page. (2)
- (f) Name the attributes of <table> tag, which are used to specify the space between cells and space between the cell wall and the cell content. (2)

4. Answer the following questions:

- (a) Draw the XML tree for the code given below: (5)

```

<itemdetails>
    <item>
        <description> Godrej Refrigerator </description>
        <price> 14,500 </price>
        <color> Grey </color>
    </item>
    <item>
        <description> LG Refrigerator </description>
        <price> 18,000 </price>
        <color> Red </color>
    </item>
</itemdetails>
    
```

- (b) Observe the following table and write the HTML code to generate it. (5)

Book_Title	Author	Rating
No Right or Wrong	Seymour Gray	7 of 10
Foreclosure!	Anita	8 of 10
Visual Learning	I.C. Howe	7 of 10

Note 1st row has blue background.

- (c) Write short notes on the following terms : (5)
  - (i) Information retrieval (ii) e-Banking (iii) Online shopping
  - (iv) e-Reservation (v) e-Groups.
- (d) Identify, which of the following is a tag or an attribute? (5)
  - (i) ul (ii) size (iii) center (iv) br (v) colspan

5. Do as directed (10)

- (a) Observe the following Web page and write HTML code to generate it.


**Smacking Lollies**

---

*Smacking Lollies* is a new chain of stores selling of candies and mouth watering lollies.

The following is a list of major outlets of Smacking Lollies:

West Delhi	Janak Puri and Rajori Garden
South Delhi	South Extension and Vasant Kunj



For enquires write to us at [enquiry@gmail.com](mailto:enquiry@gmail.com)

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Note the following points while generating the Web page:

- (i) Background color of the page is "pink".
  - (ii) The heading text "Smacking Lollies" is in "Comic Sans" font and is of "red" color.
  - (iii) Font style for the page is "arial".
  - (iv) Link color is "green" and visited link color is "blue".
  - (v) The first two words of the paragraph are underlined and in italics.
  - (vi) Image used in the page is Ice.jpg.
  - (vii) The bulleted list contains links as specified below:
    - I. The text West Delhi is a link to the Web page "west.html".
    - II. The text South Delhi is a link to the Web page "south.html".
  - (viii) E-mail id for bottom message is enquiry@gmail.com.
- (b) What is DTD? What is the purpose of DTD?

Write the code to create an DTD to present the following data:

GAME	CLASS	DAY	FEE
Cricket	10	5	500
Football	12	6	600

(10)

## Section B

### 6. Multiple Choice Questions (Choose the most appropriate option)

(18×1=18)

- (i) Which of these tags are all <table> tags?
  - (a) <table> <head> <tfoot>
  - (b) <table> <tr> <tr>
  - (c) <table> <tr> <td>
  - (d) <thead> <tbody> <tr>
- (ii) Choose the correct <HTML> tag to left-align the content inside a table cell.
  - (a) <td valign="left">
  - (b) <td align="left">
  - (c) <td headline>
  - (d) <td left>
- (iii) Increasing the cellpadding means
  - (a) increase the distance between cell and content
  - (b) increase the space between cells
  - (c) increase the softness of your site
  - (d) None of these
- (iv) Which has higher priority, cell settings or table settings?
  - (a) Cell settings
  - (b) Table settings
  - (c) Either (a) or (b)
  - (d) None of these
- (v) The symbol used at the beginning of the href text is
  - (a) #
  - (b) \$
  - (c) &
  - (d) ^
- (vi) The tag used to create a new list item.
  - (a) <li>
  - (b) <dl>
  - (c) <dd>
  - (d) <ul>
- (vii) Which of the following is italic tag?
  - (a) <i>
  - (b) <ii>
  - (c) <li>
  - (d) None of these
- (viii) Name the two default colors which are used as visited and unvisited hyperlinks in HTML.
  - (a) Green and Red
  - (b) Purple and Blue
  - (c) Purple and Green
  - (d) Red and Blue
- (ix) To set the font for a single link, where do you add the <font> </font> tags?
  - (a) In the <body> tag
  - (b) Inside the <a> and </a> tags
  - (c) Outside the <a> and </a> tags
  - (d) None of these

- (x) What does DTD stand for?  
 (a) Dynamic Type Definition (b) Do The Dance  
 (c) Document Type Definition (d) Direct Type Definition
- (xi) XML tags are  
 (a) written only in uppercase letter  
 (b) written only in lowercase letter  
 (c) Written in both uppercase and lowercase letter  
 (d) case sensitive
- (xii) A hard disk, CD, zip drive, memory stick, USB flash, blu-ray disk etc., are  
 (a) internal hardware (b) external hardware  
 (c) small storage device (d) high storage device
- (xiii) Identify which one is a virus threat  
 (a) hardware problems (b) the computer beeps at startup with no screen display  
 (c) you cannot open a particular document (d) None of these
- (xiv) The XML document is like a  
 (a) tree structure (b) inverted tree structure  
 (c) flat structure (d) None of these
- (xv) A common trend of affecting trojan horse virus infection occur due to  
 (a) network (b) E-mail (c) shareware (d) fireware
- (xvi) To change the size of an image in HTML, use  
 (a) size attribute (b) height and width attributes  
 (c) bigger and smaller (d) None of these
- (xvii) A ..... is someone who breaks into someone else's computer system, often on a network; bypasses passwords or licenses in computer programs; or in other ways intentionally breaches computer security with malicious intent.  
 (a) hacker (b) cracker (c) worm (d) malware
- (xviii) Which is not a correct name for an XML element?  
 (a) <xmldocument> (b) <25\_number> (c) <roll\_number> (d) <root>

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## Answers

- (a) Regular (b) digital signature (c) Gateway (d) summary  
 (e) XML, HTML (f) title (g) align (h) XML parser  
 (i) well-formed (j) <thead>, <tfoot>
- (a) False (b) True (c) True (d) False  
 (e) True (f) True (g) True (h) True  
 (i) True (j) False
- (a) Chatting is the textual or multimedia conversation over the Internet. It is a real-time communication between two users *via* computer. It is widely interactive text based communication process that takes places over the Internet. Yes, it is necessary to be online, while chatting.

(b) A trojan horse is a non-self replicating type of malware program containing malicious code that when executed, carries out actions determined by the nature of the trojan, typically causing loss or theft of data and possible system harm. It is harmful because it secretly passes the user's data or access rights to someone else.

(c) 

```
<?xml version="1.0"?>
<message date="9/7/2016">
  <sender>Arif</sender>
  <receivers>
    <receiver>Lokendra</receiver>
```

```

    <receiver>Durgesh</receiver>
  </receivers>
  <text>Done Successfully</text>
</message>

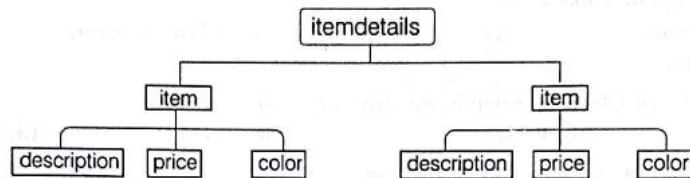
```

(d) (i) Active Link (ii) Visited Link  
 (iii) HyperText Markup Language (iv) X Bitmap

(e) <html>  
 <body>  
 To send mail  
 <a href="mailto:smith@ginz.com"> Click here </a>  
 </body>  
 </html>

- (f) **Cellpadding** It is an attribute of <table> tag, which is used to specify the space between cell wall and cell content.  
**Cellspacing** It is an attribute of <table> tag, which is used to specify the space between cells.

4. (a)



- (b) The HTML code is  
 <html>

```

  <body>
    <table border = "2" cellspacing="0">
      <tr bgcolor="blue">
        <th> Book_Title </th>
        <th> Author </th>
        <th> Rating </th>
      </tr>
      <tr>
        <td> No Right or Wrong </td>
        <td> Seymour Gray </td>
        <td> 7 of 10 </td>
      </tr>
      <tr>
        <td> Foreclosure! </td>
        <td> Anita </td>
        <td> 8 of 10 </td>
      </tr>
      <tr>
        <td> Visual Learning </td>
        <td> I.C. Howe </td>
        <td> 7 of 10 </td>
      </tr>
    </table>
  </body>
</html>

```

- (c) (i) **Information retrieval** It refers to the process of accessing the information that is stored on the Internet.
- (ii) **E-Banking** It refers to the automated delivery of new and traditional banking products and services directly to customers over the Internet.
- (iii) **Online shopping** It refers to the activity of purchasing items from different Websites on Internet.
- (iv) **E-Reservation** It refers to the process that helps users to reserve movie, train and airline tickets as well as hotel rooms through Internet.
- (v) **E-Groups** It refers to an online environment where users sharing common views and ideas that come together to meet and discuss topics of their interest.
- (d) (i) **ul** → tag (ii) **size** → attribute
- (iii) **center** → tag (iv) **br** → tag
- (v) **colspan** → attribute

5. (a) The HTML code is

```
<html>
  <head> <title> CandyWorld </title> </head>
  <body bgcolor = "pink" link = "green" vlink = "blue">
    <font face = "Comic Sans" color="red">
      <h1> <center>SmackingLollies</center> </h1>
    </font>
    <hr color="blue"> <br>
    <font size = "5" face = "arial">
      <u> <i> Smacking Lollies </i> </u> is a new chain of stores selling of candies and mouth watering
      lollies.
      <img src = "Ice.jpg" align="right" width="150">
      <table border="3" cellpadding="10" cellspacing="0" bordercolor="purple"
      align="center" width="60%">
        <caption> The following is a list of major outlets of Smacking Lollies:
        </caption>
        <tr>
          <th> <a href="west.html"> West Delhi </a> </th>
          <td> Janak Puri and Rajori Garden </td>
        </tr>
        <tr>
          <th> <a href="south.html"> South Delhi </a> </th>
          <td> South Extension and Vasant Kunj </td>
        </tr>
      </table>
      <p align = "center"> <b> Forenquires write to us at <a href = "mailto:
      enquiry@gmail.com"> enquiry@gmail.com </a> </b> </p>
    </font>
  </body>
</html>
```

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- (b) **DTD** stands for Document Type Definition. A DTD allows you to create rules for the elements within your XML documents. Although XML itself has rules, the rules defined in a DTD are specific to your own needs. So, for an XML document to be well-formed, it needs to use correct XML syntax, and it needs to confirm to its DTD or schema.

The DTD is declared at the top of your XML document. The actual contents of the DTD can be included within your XML document or included in another document and linked to both. The purpose of a DTD is to define the structure of an XML document. It defines the structure with a list of legal elements.

```
<?xml version = "1.0"?>
<! DOCTYPE STADIUM [
<! ELEMENT STADIUM(GAME, CLASS, DAY, FEE)>
<! ELEMENT GAME(#PCDATA)>
<! ELEMENT CLASS(#PCDATA)>
<! ELEMENT DAY(#PCDATA)>
<! ELEMENT FEE(#PCDATA)>
]>
```

6. (i) (d) (ii) (b)  
 (iii) (a) (iv) (b)  
 (v) (a) (vi) (a)  
 (vii) (a) (viii) (b)  
 (ix) (b) (x) (c)  
 (xi) (d) (xii) (d)  
 (xiii) (d) (xiv) (a)  
 (xv) (b) (xvi) (b)  
 (xvii) (b) (xviii) (b)

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