

CBSE Question Paper 2018
Class 10 Foundation of Information Technology

Time allowed : 2 ½ hours

Maximum Marks : 40

General Instruction : All questions are compulsory; however internal choices have been given in few questions.

SECTION 'A'

1. Multiple Choice Questions :

a. Full form of FTP is:

- i. Fast Transfer Protocol
- ii. File Transfer Protocol
- iii. Full Transfer Protocol
- iv. File Transit Protocol

Ans. (ii) File Transfer Protocol

b. In VLINK attribute, V stands for.

- i. Visited
- ii. Very
- iii. Victory
- iv. Visitor

Ans. (i) Visited

c. Time, Date and Number are the examples of:

- i. DataTables
- ii. DataSize
- iii. DataBase
- iv. DataTypes

Ans. (iv) DataTypes

d. FACE and SIZE are the attributes of _____ tag.

- i. FONT
- ii. BASEFONT
- iii. H1.....H6



iv. Both (i) and (ii)

Ans. (iv) Both (i) and (ii)

e. **Which statement(s) is true about XML?**

- i. It is not case sensitive.
- ii. It is similar to other programming languages like C & C++.
- iii. It is used for defining own tags.
- iv. It is not at all helpful in data storage and data sharing.

Ans. (iii) It is used for defining own tags.

2. **Write down one main advantage of e-Shopping.**

Ans. (Any one of the following or any other correct advantage)

- Customers can easily select products from different providers without moving around physically.
- Faster buying/selling procedure, as well as easy to find products.
- Buying/selling 24 x 7.
- More reach to customers, there is no geographic limitation.
- Low operational costs and better quality of services.
- Special Offers and comparative/competitive prices.

3. **Name any two popular web browsers.**

Ans. Chrome, Firefox, Safari, Internet Explorer, Edge, Opera, Chromium, UC Browser, Netscape Navigator, Falkon

4. $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

To display above given chemical expression on a webpage, following HTML code was written:

6CO² + 6H²O → C⁶H¹²O⁶ + 6O²

But its not displaying the expression in desired format. Identify the fault(s) and suggest the required correction(s).

Ans. $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

To display above given chemical expression on a webpage, following HTML code was written:

6CO² + 6H²O → C⁶H¹²O⁶ + 6O²

But its not displaying the expression in desired format. Identify the fault(s) and suggest



the required correction(s).

5. **Give any two examples of popular search engines.**

Ans. Google, Bing, Yahoo, Ask.com, AOL.com, Baidu, Wolframalpha, DuckDuckGo

6. **What is WWW?**

Ans. The World Wide Web ('WWW') is a collection of webpages found in the Internet.

OR

WWW is Network of World Wide Computers

SECTION 'B'

7. **Match web services/URL given in column 'A' with corresponding web services/URL given in column 'B':**

Column A	Column B
Social Networking site	https://www.amazon.in
https://web.skype.com/	e-Banking
e-Shopping	Video Conferencing
https://www.onlinesbi.in/	https://www.facebook.com/

Ans. Match web services/URL given in column 'A' with corresponding web services/URL given in column 'B':

Column A	Column B
Social Networking site	https://www.facebook.com/
https://web.skype.com/	Video Conferencing
e-Shopping	https://www.amazon.in
https://www.onlinesbi.in/	e-Banking

8. **Mention any two benefits of ICT in Education.**

Ans. Promotes Learning by doing approach

- Enables self-paced learning OR More individual learning
- Provides access to wide range of up-to-date learning materials
- Enriches learning through a combination of audio, video, images, text and animation

- Enhances learning through interaction and collaboration/team work
- Provides a platform that engages students
- Measurable outcomes

9. Write HTML code to generate the webpage as shown below having lists in the given style :

Career Options

- Medical
 - i. Medicine
 - ii. Research
- Engineering
- Marketing

OR

Discuss the use of and tag with suitable example of each.

Ans.

```
<HTML> <!-- Optional -->
```

```
<BODY> <!-- Optional -->
```

Career Options

```
<UL>
```

```
<LI> Medical
```

```
<OL>
```

```
<LI>Medicine
```

```
<LI>Research
```

```
</OL>
```

```
<LI>Engineering
```

```
<LI>Marketing
```

```
</UL>
```

```
</BODY> <!-- Optional -->
```

```
</HTML> <!-- Optional -->
```

OR

The tag is used together with the tag to create Unordered List.

Example:



Medical

Engineering

Marketing

will generate the webpage as:

- Medical
- Engineering
- Marketing

10. A table named “Customer” has following columns:

CustId, Name, City, MobileNo

Identify which column(s) cannot be specified as Primary key and why?

OR

How fields and records are related with each other in a table ? Explain with suitable example.

Ans. Name and City cannot be specified as Primary Key, because these columns can have duplicate values for different records.

OR

Table: A table has records (rows) and fields (columns).

Record: Contains specific data, like information about a particular employee or a product.

Field: Contains data about one aspect of the table, such as First Name or E-mail Address.

Example:

Id	First Name	E-mail Address
1	Anna	anna@gmail.com
2	Antonio	antonio@gmail.com
3	Thomas	thomas@gmail.com



11. **Gaurav, a web designer in a company named “International Designers” has just created a webpage in which different sections of the webpage are linked and can be traversed by clicking on the text given as “Top”, “Middle” and “Bottom”. Is it internal linking or external linking and why ? Additionally tell him about the suitable tag and its attribute(s) to open another webpage named ‘second.html’ by clicking on the text “Next”.**

Ans. Internal linking, because the links are used to traverse different sections in the same webpage.

The tag and attributes to open another webpage named ‘second.html’ by clicking on the text “Next” is

```
<a href="second.html">Next</a>
```

12. **Write any three main characteristics of XML.**

Ans. (Any three of the following or any other correct characteristic)

- XML stands for eXtensible Markup Language
- XML is a markup language much like HTML
- XML tags are not predefined like HTML tags are
- XML was designed to store and transport data
- XML was designed to be self-descriptive
- XML is a Case Sensitive Language
- XML is used to create new internet languages
- XML is W3C recommendation
- XML is platform independent and language independent
- XML is not a replacement for HTML

13. **How email address and URL are different from each other ? Explain with suitable example.**

Ans. (Any of the following or any other correct difference)

- URL is Uniform Resource Locator. email is Address of Electronic Mail
- URL is the web address of a web page while email is used to send electronic messages to each other using computer networks.
- In the email @ is used which is not present in any URL.
- The email address is often used in lower case, while websites or web address are written in mixed letters.
- email is always used to receive electronic mails while web address is not used to



receive any mails.

- A web address is used to access a website where information can be found while email is not used to get any information.
- URL can directly be typed in browser to access web site/page whereas email Address can not be browsed as web site/page

Examples:

- URL: abc.com, cbse.nic.in, ncert.nic.in/NCERTS/textbook/textbook.htm

OR

Any other correct example of URL

- Email: secy-cbse@nic.in , ncert.media@gmail.com, ntse2@yahoo.co.in,

OR

Any other correct example of email

14. **Discuss the role of spyware as a threat to information security. Define the following:**
(i) Virus (ii) Hacker (iii) Cracker

OR

What is the need to take the data backup ? Discuss online backup briefly.

Ans. FIRST OPTION

Spyware is software that aims to gather information about a person or organization without their knowledge and gives the access to someone else.

OR

Spyware is a software, which spies on your data/activities and passes on to others.

- i. **Virus :** A computer virus is an executable software that spreads from one computer to another.

OR

A piece of code which is capable of copying itself and typically has a detrimental effect, such as corrupting the system or destroying data.



-
- ii. **Hacker:** A hacker is an individual, who breaks security for non-malicious reasons to test the security of a system.

OR

A hacker practices to modify/alter computer software/hardware and informs the creator about the security issues.

- iii. **Cracker :** A cracker is a person who violates computer security for malicious intentions or for personal gain

OR

A cracker practices to modify/alter computer software/hardware and uses it for personal gains/ to trouble the creator.

OR

SECOND OPTION

Data Backup is the copying and archiving of computer data so it may be used to restore the original in case of data-loss.

Online backup is a method of web/cloud storage in which data is regularly backed up on a remote server/cloud.

Examples of Online backup tools are: Google Drive, Dropbox etc.

15. Draw the XML tree for the code given below:

```
<EVENTS>
  <SPORTS>
    <ZONAL>
      <Player>Rajesh</Player>
      <Date>22-Feb-2018</Date>
      <Place>Shakti Stadium</Place>
    </ZONAL>
  </SPORTS>
  <CULTURAL>
    <MUSIC>
      <Artist>Uma Shankar Ji</Artist>
```



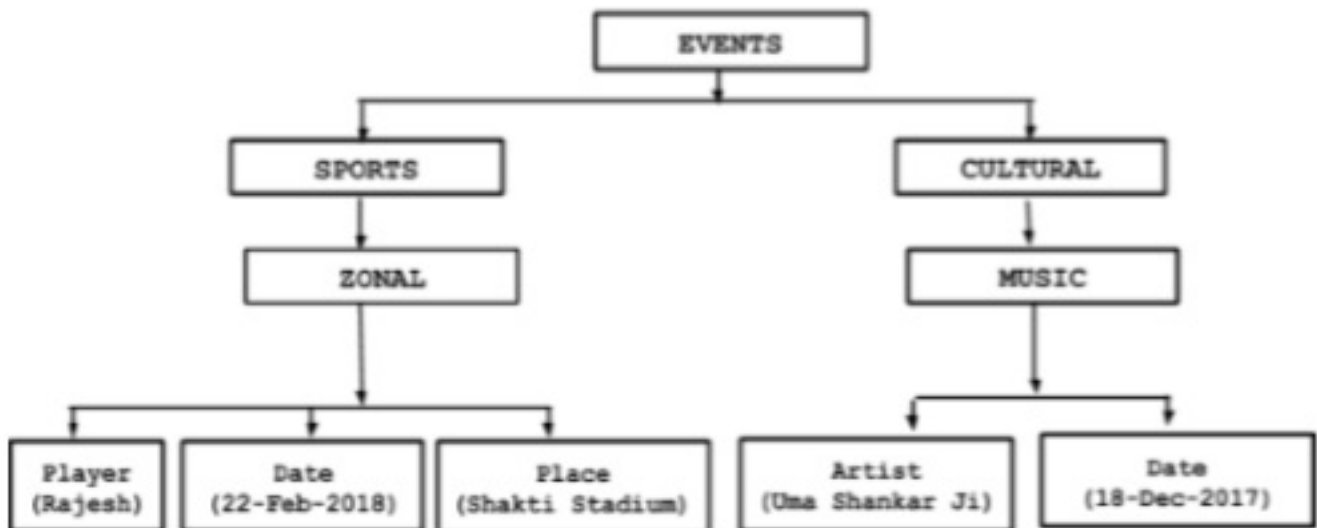
<Date>18-Dec-2017</Date>

</MUSIC>

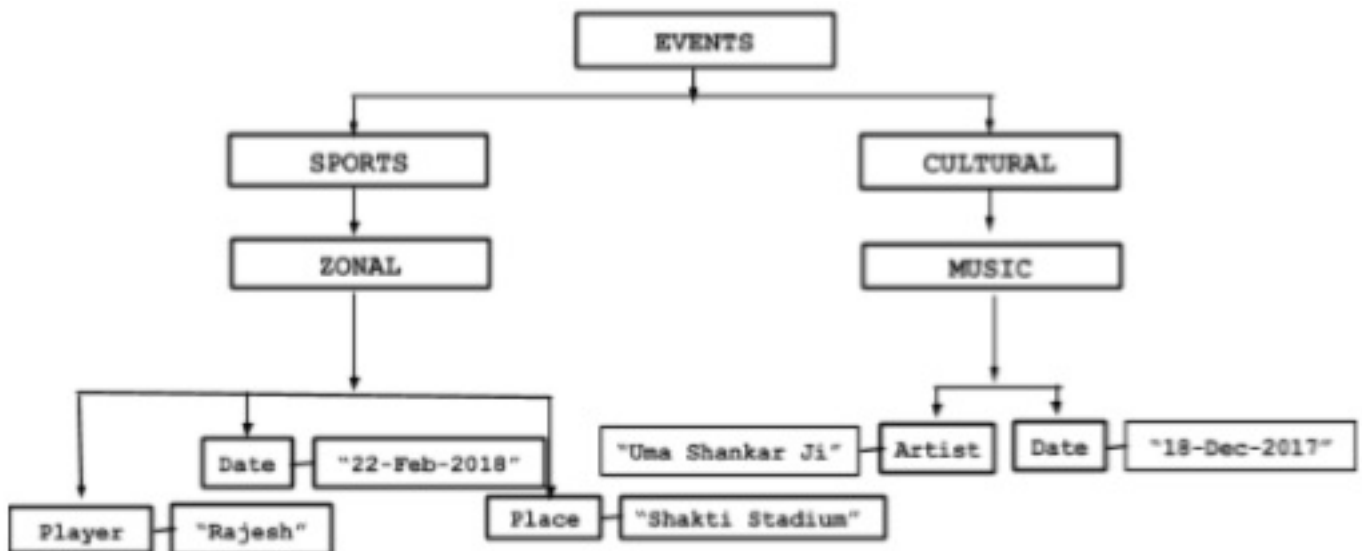
</CULTURAL>

</EVENTS>

Ans.



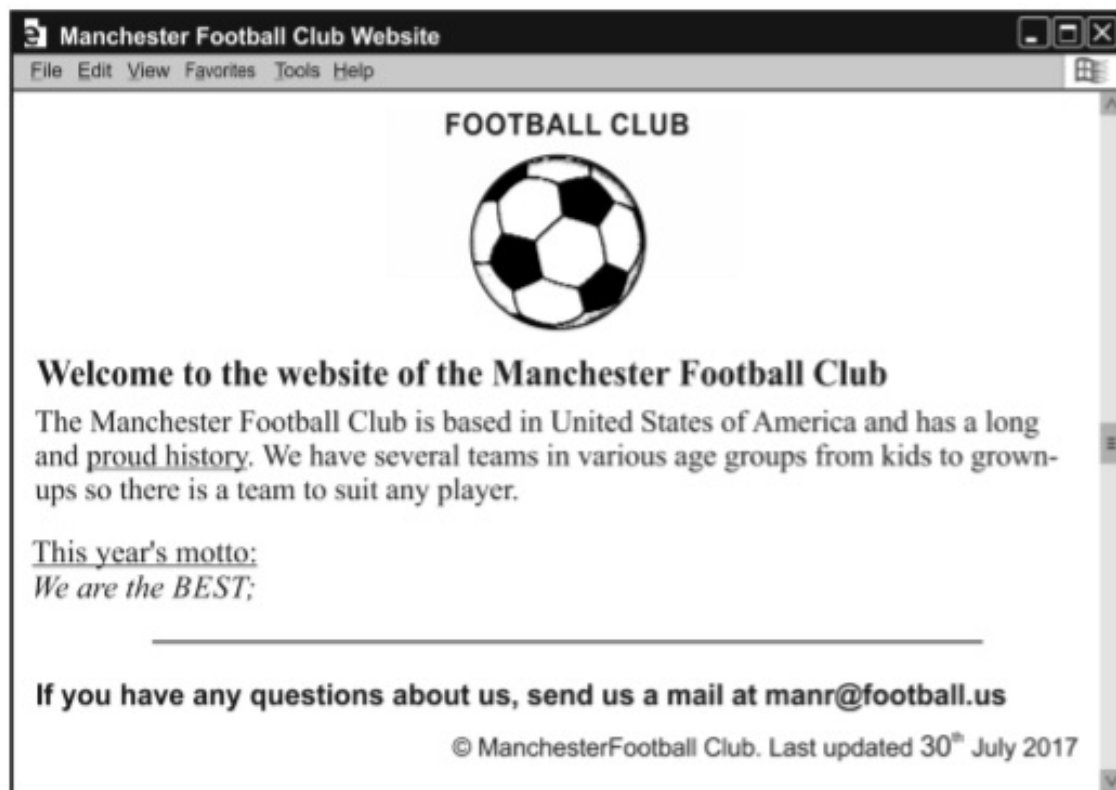
OR



16. Attempt any one question out of given two:

a. Observe following output and write HTML code to generate it.





Consider the following points while generating the web page:

- The title of the page is “FOOTBALL CLUB”
- The heading is blue colour
- Font of entire document is Arial
- Image used is “football.jpeg”
- The page is linked to:
 - Proud history to “history.html”
- Bottom message is of size 2.

OR

b. Differentiate between the following with respect to Tables in HTML:

- i. Cellspacing and Cellpadding.
- ii. Rowspan and Colspan.

Ans.

a. <HTML>

<BODY>

<HEAD>

<TITLE>FOOTBALL CLUB</TITLE>

<!-- OR <TITLE>Manchester Football Club Website</TITLE> --> </HEAD>



```

<BODY>
<FONT FACE="Arial">
<CENTER>
<!-- OR <P ALIGN="Center"> -->
<H1><FONT COLOR= "Blue" >FOOTBALL CLUB</H1></FONT>
<BR>
<IMG SRC="football.jpeg" >
</CENTER>
<B>
Welcome to the website of the Manchester Football Club
</B>
<BR>
The Manchester Football Club is based in United States of America and has a long and
<A HREF="history.html">proud history</A>.
We have several teams in various age groups from kids to grown-
ups so there is a team to suit any player
<BR><BR>
<U>This year's motto:</U>
<BR>
<I>We are the BEST: </I>
<HR>
<B>If you have any questions about us, send us a mail at manr@football.us</B>
<BR>
<FONT SIZE=2>
<P ALIGN="Right">© ManchesterFootball Club Last updated 30<SUP>th</SUP> July
2017
</P>
</FONT>
</FONT>
</BODY>
</HTML>

```

- b. (i) The cellspacing attribute specifies the space, in pixels between cells.

<body>	
--------	--



<p>Table without cellpadding:</p> <table>

<tr>

<th>Month</th>

<th>Savings</th>

</tr>

<tr>

<td>January</td>

<td>Rs100</td>

</tr>

</table>

<p>Table with cellpadding:</p> <table cellpadding="10">

<tr>

<th>Month</th>

<th>Savings</th>

</tr>

<tr>

<td>January</td>

<td>Rs100</td>

</tr>

</table>

</body>

Table without cellpadding:

Month	Savings
January	Rs100

Table with cellpadding:

Month	Savings
January	Rs100

The cellpadding attribute specifies the space, in pixels between the cell wall and the cell content.

Example:

<body>

<p>Table without cellpadding:</p>

<table>

<tr>

<th>Month</th>

<th>Savings</th>

</tr>



```

<tr>
<td>January</td>
<td>Rs100</td>
</tr>
</table>
<p>Table with cellpadding:</p> <table
cellpadding="10">
<tr>
<th>Month</th>
<th>Savings</th>
</tr>
<tr>
<td>January</td>
<td>Rs100</td>
</tr>
</table>
</body>

```

Table without cellpadding.

Month	Savings
January	Rs100

Table with cellpadding.

Month	Savings
January	Rs100

(ii) The rowspan attribute specifies the number of rows a cell should span.

OR

Rowspan is used to merge multiple rows

Example:

```

<table>
<tr>
<th>Month</th>
<th>Savings</th>
<th>Savings for holiday!</th>
</tr>
<tr>
<td>January</td>
<td>Rs100</td>
<td rowspan="2">Rs50</td>

```

Month	Savings	Savings for holiday!
January	Rs100	Rs50
February	Rs80	

```
</tr>
<tr>
<td>February</td>
<td>Rs80</td>
</tr>
</table>
```

The colspan attribute defines the number of columns a table cell should span

OR

Colspan is used to merge multiple columns

Example:

```
<table>
<tr>
<th>Month</th>
<th>Savings</th>
</tr>
<tr>
<td>January</td>
<td>Rs100</td>
</tr>
<tr>
<td>February</td>
<td>Rs80</td>
</tr>
<tr>
<td colspan="2">Sum:Rs180</td>
</tr>
</table>
```

Month	Savings
January	Rs100
February	Rs80
Sum: Rs180	

