Class X
Foundation of Information Technology (Code: 165)
Sample Question Paper 2018-19

Time: 2 ½ Hrs.   M.M.:40

General Instructions:

(i)   The sample question paper consists of 16 questions.
(ii) All questions are compulsory; however internal choice has been given in few questions.

1	**Multiple Choice Questions**	5
	a. Which one of the following is an e-Shopping website:	
	i) Flipkart	
	ii) Amazon	
	iii) Snapdeal	
	iv) All of above	
	b. Background is an attribute of:	
	i) <BODY> tag	
	ii) <FONT> tag	
	iii) <IMG> tag	
	iv) <A> tag	
	c. A link used to navigate or open other web pages on a website on internet is called:	
	i) Higherlink	
	ii) Hyperlink	
	iii) Heterolink	
	iv) None of above	
	d. A total of how many headings are there in html:	
	i) 4	
	ii) 6	
	iii) 7	
	iv) 8	
	e. Which one of the following is not an attribute of <A> tag:	
	i) NAME	
	ii) HREF	
	iii) Source	
	iv) Both (i) & (ii)	

2.	What is Blog?	1
3.	Discuss the purpose of HTTP briefly.	1
4.	Tamanna needs to store and transport the data. She should use HTML or XML?	1
5.	Name the protocol which is used for uploading & downloading data from remote site.	1
6.	What is the full form of URL?	1
7.	What is the purpose of a web browser? Give the name of any two popular web browsers.	2
8.	Explain the term Digital Divide.	2
9.	Define cell padding and cell spacing with respect to tables in HTML. **OR** Define container & empty tags in HTML.	2
10.	What is a primary key in a table? **OR** What is the need of a database? Discuss briefly.	2
11.	Differentiate between <OL> and <UL> tag with suitable example.	3
12.	What is the purpose of <IMG> tag? Mention it's any two attributes along with their purpose.	3
13.	What is e-Learning? Mention any two main benefits of e –learning with respect to the use of Information Technology.	3
14.	Differentiate between Crackers & Hackers. **OR** Ishan, a trainee in a multinational bank has just got his first official computer with internet facility in his office. Explain him about Malware, its types and any two precautionary measure he should be taken for information security.	3

15.	Write the HTML code to generate the following web page with the given below specifications:
	    (a) Bordered table should have background color in pink.
	    (b) Table's header row with a heading "INCOME TAX SLABS 2017-18" should spread over four cells.
	    (c) After heading row, first cell of next row should spread over five rows with an image named "it.jpg" stored in d: drive.
	    (d) Set the space between the cell wall and the cell content to 10 pixels and set the space between the cells to 10 pixels.
	    (e) At the bottom of the page, a link to next page is there which is linked to another webpage named "next.html".
		5

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INCOME TAX SLABS 2017-18	

S.No.	Income Range	Tax%
1	0 – 250000	NIL
2	250001 - 500000	10%
3	500001 - 1000000	20%
4	>1000000	30%

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16.	**Attempt any one question out of the given two:**	5

A. Sahiba, a website designer with "International Designers Pvt. Ltd." has written the following code. Observe the code given below and answer the following questions:

```
<company>
    <employee eid=1>
            <name>Albert</name>
            <dept deptid="d1">Computer</dept>
    </employee>
    <employee eid=2>
            <name>Manisha</name>
            <dept deptid="d2">Accounts</dept>
    </employee>
</company>
```

i. Are these tags part of HTML code or XML code?
ii. Identify the root element.
iii. Mention any two child elements.
iv. Mention any two attributes.
v. An xml document can have more than one root element. Is it true or false?

OR

B. Vani, a class X student has recently completed her HTML course and just started learning XML. Help her in the following:
i. Mention her any one main difference between HMTL and XML.
ii. She has been told that "All major browsers have a built-in XML parser to access and manipulate XML". Is this statement right or wrong?
iii. Explain her the purpose of comments in XML document.
iv. Tell her the syntax to put comments in XML documents.
v. Explain her the meaning of well-formed XML documents.

Marking Scheme
Foundation Of Information Technology (Code: 165)
CLASS:-X (2018-19)

Time: 2 ½ Hrs.   **M.M.:40**

1	**Multiple Choice Questions**	5
	a. Which one of the following is an e-Shopping website: i) Flipkart ii) Amazon iii) Snapdeal iv) All of above **Ans. (iv)** *(1 mark for correct answer)*	
	b. Background is an attribute of: i) <BODY> tag ii) <FONT> tag iii) <IMG> tag iv) <A> tag **Ans. (i)** *(1 mark for correct answer)*	
	c. A link used to navigate or open other web pages on a website on internet is called: i) Higherlink ii) Hyperlink iii) Heterolink iv) None of above **Ans. (ii)** *(1 mark for correct answer)*	
	d. A total of how many headings are there in html: i) 4 ii) 6 iii) 7 iv) 8	

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	Ans. (ii)	
	(1 mark for correct answer)	

	e. Which one of the following is not an attribute of <A> tag:
	
	  i) NAME
	
	  ii) HREF
	
	  iii) Source
	
	 iv)Both (i) & (ii)
	
	Ans. (iii)
	
	(1 mark for correct answer)	

2.	What is Blog?	1
Ans	Blog is an alternative word for weblog. People often write about their opinion or thought on a particular topic just like they write in their diary or journal. People who write on blogs are called bloggers. *(1 mark for correct answer)*	
3.	Discuss the purpose of HTTP briefly.	1
Ans	Full form of HTTP is Hypertext Transfer Protocol. It is the foundation of data communication for the World Wide Web. *(1 mark for correct answer)*	
4.	Tamanna needs to store and transport the data. She should use HTML or XML?	1
Ans	She should use XML. (1 mark for correct answer)	
5.	Name the protocol which is used for uploading & downloading data from remote site.	1
Ans	FTP (File Transfer Protocol) *(1 mark for correct answer)*	
6.	What is the full form of URL?	1
Ans	Full form of URL is Uniform Resource Locator. *(1 mark for correct answer)*	
7.	What is the purpose of a web browser? Give the name of any two popular web browsers.	2
Ans	A web browser is an application program used for exploring the information resources available on the World Wide Web to retrieve the required information. Two popular web browsers are Google Chrome and Mozilla Firefox. *(1 mark for correct purpose of web browser)* *(½ mark each for any two popular web browser name)*	

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8.	Explain the term Digital Divide.	2
Ans	It is an economic and social inequality with regard to access to, use of, or impact of Information and Communication Technologies (ICT). *(2 mark for correct answer)*	
9.	Define cell padding and cell spacing with respect to tables in HTML. OR Define container & empty tags in HTML.	2
Ans	*CELLSPACING* controls the space between table cells and *CELLPADDING* sets the amount of space between the contents of the cell and the cell wall. **OR** Container tags are tags which have both opening as well as closing tag like <B> ……</B> whereas empty tags are tags which have only opening tag like <HR>, . *(2 mark for correct answer)*	
10.	What is a primary key in a table? OR What is the need of a database? Discuss briefly.	2
Ans	A primary key is a special relational database table column (or combination of columns) designated to uniquely identify each & every table record. It does not contain NULL & duplicate values **OR** A database is usually a large collection of data which is organized in a very effective and efficient manner. It allows the user for rapid search and retrieval of required information. *(2 mark for correct answer)*	
11.	Differentiate between <OL> and <UL> tag with suitable example.	3
Ans	<OL> stands for Ordered List which can be either numerical or alphabetical while <UL> stands for Unordered List which can be either disc, square or circle. Code examples containing <OL>and<UL> is given below with their respective outputs: <table><tr><th>HTML CODE AND OUTPUT</th><th>HTML CODE AND OUTPUT</th></tr><tr><td>CODE Hobbies <OL> <LI>Games <LI>Programming</td><td>CODE Hobbies <UL> <LI>Games <LI>Programming</td></tr></table>	

<div align="center">Page No. 3</div>

	<LI>Dramatics</br></OL></br>**OUTPUT**</br></br>Hobbies</br></br> 1. Games</br> 2. Programming</br> 3. Dramatics	<LI>Dramatics</br></UL></br>**OUTPUT**</br></br>Hobbies</br></br> • Games</br> • Programming</br> • Dramatics	
	(1 mark for correct differentiation of <OL> and <UL> tag)</br>*(2 mark for suitable examples)*		
12.	What is the purpose of <IMG> tag? Mention it's any two attributes along with their purpose.		3
Ans	<IMG> tag is used to insert images in any webpage.</br>Its two main attributes are as follows:</br>SRC: It specifies the URL of the image.</br>ALT: It specifies an alternate text for an image.</br>*(1 mark for correct purpose of <IMG> tag)*</br>*(1 mark each for any two attributes along with their purpose)*		
13.	What is e-Learning? Mention any two main benefits of e –learning with respect to the use of Information Technology.		3
Ans	Learning with the help of electronic resources like computers, tablets, smart phone, internet etc. is known as E-learning.</br>Advantages of eLearning are:</br> • It is time saving as well as removes the distance barrier between learner & teacher.</br> • It has quicker delivery cycle times than traditional classroom-based instruction.</br> • It is less expensive to set-up an e-learning environment.</br>*(1 mark for correct definition of e-Learning)*</br>*(1 mark each for any two correct benefits of e-Learning)*		
14.	Differentiate between Crackers & Hackers.</br><center>OR</center>Ishan, a trainee in a multinational bank has just got his first official computer with internet facility in his office. Explain him about Malware, its types and any two precautionary measure		3

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	he should be taken for information security.	
Ans	In computing, a hacker is any skilled computer expert who uses their technical knowledge to overcome a problem or otherwise gains remote access to a protected computer system mainly to get thrill out of it.	
	A cracker is also a skilled computer expert but he/she breaks into or otherwise violates the system integrity of remote machines with malicious intent. Having gained unauthorized access, crackers destroy vital data, deny legitimate users service, or cause problems for their targets.	
	(3 marks for correct differentiation)	
	OR	
	Malware is a computer software which is specifically designed with malicious intention generally to disrupt, damage, or gain authorized access to a computer system. It can be of various types like Virus, Worms, Trojan Horses etc.	
	Any two precautionary measures to be taken against malware are as follows:	
	• Install quality Antivirus software	
	• Regular update of Antivirus software and regular PC scan	
	• Do not click on unknown or suspicious links	
	• Avoid pirated software	
	(1 mark for correct definition of Malware)	
	(1 mark for its correct types)	
	(½ mark each for any two precautionary measures)	
15.	Write the HTML code to generate the following web page with the given below specifications: (a) Bordered table should have background color in pink. (b) Table's header row with a heading "INCOME TAX SLABS 2017-18" should spread over four cells. (c) After heading row, first cell of next row should spread over five rows with an image named "it.jpg" stored in d: drive. (d) Set the space between the cell wall and the cell content to 10 pixels and set the space between the cells to 10 pixels. (e) At the bottom of the page, a link to next page is there which is linked to another webpage named "next.html".	5

INCOME TAX SLABS 2017-18

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Ans	<html>

<head><title>Income Tax Slabs 2017-

18</title></head> <body>

<table bgcolor="pink" border=1 cellspacing=10 cellpadding=10>

<tr>

<th colspan=4>

INCOME TAX SLABS 2017-18

</th>

</tr>

<tr>

<td rowspan=5><img src="d:\it.jpg"></td>

<td>S.No.</td>

<td>Income Range</td>

<td>Tax%</td>

</tr>

<tr>

<td>1</td>

<td>0 – 250000</td>

<td>NIL</td>

</tr>

<tr>

<td>2</td>

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```
<td>250001 - 500000</td>

<td>10%</td>

</tr>

<tr>

<td>3</td>

<td>500001 - 1000000</td>

<td>20%</td>

</tr>

<tr>

<td>4</td>

<td>>1000000</td>

<td>30%</td>

</tr>

</table>

</table>

<a href="next.html">Next Page</a>

</body>

</html>
```

(1 mark for correct use of <TABLE> tag fulfilling given specification)
(1 mark for correct use of colspan attribute of <TH> tag)
(1 mark for correct use of rowspan attribute of <TD> tag along with <IMG> tag)
(1 mark for correct use of cellspacing and cellpdding)
(1 mark for correct use of <A> tag)

16.	**Attempt any one question out of the given two:**
	
	A. Sahiba, a website designer with "International Designers Pvt. Ltd." has written the following code. Observe the code given below and answer the following questions:
	
	`<company>`
	`  <employee eid=1>`
	`        <name>Albert</name>`
	`        <dept deptid="d1">Computer</dept>`
	`  </employee>`
	`  <employee eid=2>`
	`        <name>Manisha</name>`
	`        <dept deptid="d2">Accounts</dept>`
	`  </employee>`
	`</company>`
	  i. Are these tags part of HTML code or XML code?
	  ii. Identify the root element.
		5

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	iii. Mention any two child elements. iv. Mention any two attributes. v. An xml document can have more than one root element. Is it true or false? **OR** B. Vani, a class X student has recently completed her HTML course and just started learning XML. Help her in the following: i. Mention her any one main difference between HMTL and XML. ii. She has been told that "All major browsers have a built-in XML parser to access and manipulate XML". Is this statement right or wrong? iii. Explain her the purpose of comments in XML document. iv. Tell her the syntax to put comments in XML documents. v. Explain her the meaning of well-formed XML documents.	
Ans	**A.** i. These tags are part of XML code. ii. <company> iii. <name> and <dept> iv. eid and deptid v. false **OR** **B.** i. Primary purpose of HTML is to design a webpage while XML is used to store and transport the data. ii. Right iii. Comments are added as notes or lines for understanding the purpose of an XML code. iv. A comment starts with <!-- and ends with -->. Syntax for comments are as follows: <!-- Comments --> v. An XML document with correct syntax is called "Well Formed". *(1 mark for each correct answer)*	

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