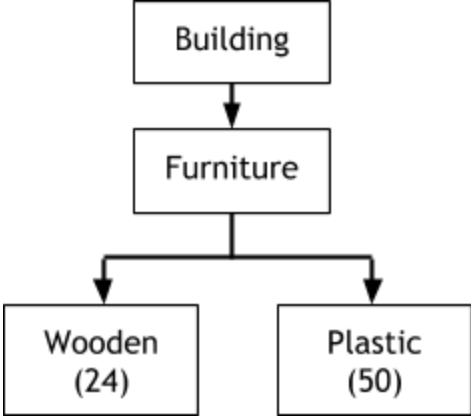**Important Note:**
- All answers provided in the Marking scheme are SUGGESTIVE.
- Examiners are requested to accept all possible alternative correct answer(s).
- Wherever HTML Tags are asked – ignore the format/additional arguments if so given in the answer(s)
- Wherever multiple answers are suggested, they are in order of appropriateness

SUMMATIVE ASSESSMENT - II
FOUNDATION OF INFORMATION TECHNOLOGY

		SECTION A	
Q1.		**Fill in the blanks :** *(½ Mark for writing each correct answer)*	**5**
	(a)	In XML an element which has no content is termed as _____	
	Ans.	Empty	
	(b)	A tag that requires an opening as well as a closing tag is called a_____ tag.	
	Ans.	Container	
	(c)	The_____tag provides additional information including title, scripts used, etc. about a webpage.	
	Ans.	Head	
	(d)	_____tag make a numbered list.	
	Ans.	OL	
	(e)	_____tag is used for inserting a background image.	
	Ans.	BODY	
	(f)	For displaying coloured text_____ tag is used.	
	Ans.	FONT OR BODY	
	(g)	Any software designed to harm the computer, or disturb its normal operations is known as_____	
	Ans.	MALWARE OR VIRUS OR Spyware OR any other correct answer	
	(h)	You can make use of an_____ software to detect the presence of virus.	
	Ans.	ANTIVIRUS	
	(i)	Quick heal is a type of_____	
	Ans.	ANTIVIRUS	
	(j)	_____is a tricky application that appears to be legitimate and useful at first glance.	
	Ans.	TROJAN HORSE	
Q2.		**State True or False:** *(½ Mark for writing each correct option)*	**5**
	(a)	An attribute defines a property of the element.	
	Ans.	**True**	
	(b)	XML elements can be defined as building blocks of an XML.	
	Ans.	**True**	
	(c)	HTML tags tell a web browser how to render a web page.	
	Ans.	**True**	
	(d)	SRC attribute specifies an alternate text for an image, if the image cannot be displayed.	
	Ans.	**False**	

	(e)	A hyperlink apply to text only.	
	Ans.	**False**	
	(f)	<th> tags always need to come at the start of a column.	
	Ans.	**False**	
	(g)	Unsolicited email attachments should not be opened as they can be dangerous.	
	Ans.	**True**	
	(h)	Always use a same password for each website you log in to.	
	Ans.	**False**	
	(i)	Avoid pirated software as they are a security risk.	
	Ans.	**True**	
	(j)	Spyware is type of malicious program.	
	Ans.	**True**	
Q3.		**Short Answer Questions:**	
	(a)	What is the difference between cellspacing and cellpadding attribute ?	2
	Ans.	Cellspacing Set the space between the cells Cellpadding sets the space between cell wall and its content *(1 mark for each correct answer)*	
	(b)	Write any two precautions to avoid spam.	2
	Ans.	● Never click on links that come from unknown sources. ● Never, ever reply to a spam message. ● Don't forward an email from someone you don't know to a list of people. ● Use a spam filter. **OR, any other correct precautions** *(1 Mark each for any two correct precautions)*	
	(c)	Write the HTML code to display image with red border.	2
	Ans.	`<img src="b.jpg" border=1 bordercolor=red>` *(1 mark for IMG Tag)* *(1 mark for border attribute)* *Note: Ignore the bordercolor attribute*	
	(d)	Write the full forms of : **(i) WWW** **(ii) FTP** **(iii) LI** **(iv) HR**	2
	Ans.	**(i) WWW - World Wide Web** **(ii) FTP - File Transfer Protocol** **(iii) LI - List Item** **(iv) HR - Horizontal Rule OR Horizontal Ruler** *(½ mark for each correct full form)*	
	(e)	Internet is a series of interconnected computers throughout the world. (i) Name any one of the services that is offered on internet. (ii) Name any one of the internet service provider.	2

	Ans.	(i) eCommerce, eBusiness, eMail, WebBrowsing, eLearning, eGovernance or any other correct service (ii) BSNL, MTNL, Airtel, Vodafone, Idea Cellular, Reliance Communications, Aircel, Tata Teleservices, Telenor India, Videocon, Atria Convergence Technologies or any other correct service provider name *(1 mark for any one correct service)* *(1 mark for any one correct ISP name)*	
	(f)	Mr. Gupta is a farmer who is using internet to improve his crop production. He uses a search engine to collect the information. (i) Explain what is a search engine. (ii) Give example of search engine.	2
	Ans.	Search engine is web based program that searches for and identifies items in a database that corresponds to keywords or characters specified by user. Google, Bing, Yahoo, Baidu, AOL, ASK, Escite, DuckDuckGo, WolframAlpha, Yandex, Lycos, chacha or any other correct name of search engine *(1 mark for any correct definition/explanation of search engine)* *(1 mark for any one correct example of search engine)*	
Q4.		**Short Answer Questions:**	

	(a)	Draw the XML tree for the following code:
		
		 `<Building>`
		     `<Furniture>`
		         `<Wooden>24</Wooden>`
		         `<Plastic>50</Plastic>`
		     `</Furniture>`
		     `<Furniture>`
		         `<Wooden>24</Wooden>`
		         `<Plastic>50</Plastic>`
		     `</Furniture>`
		 `</Building>`
			5

	Ans.	 **OR** *Any other similar representation for Tree* *(1 mark for Root Element Building)* *(1 mark for Furniture)* *(1½ mark each for Elements Wooden (24), Plastic (50) under Furniture)*	

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

Column 1	Column 2	Column 3
Row 1 Cell 1	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

Ans.	

```
<TABLE>
  <TR>
      <TH>Column 1</TH>
      <TH>Column 2</TH>
      <TH>Column 3</TH>
  </TR>
  <TR>
      <TD ROWSPAN=2>Row 1 Cell 1</TD>
      <TD>Row 1 Cell 2</TD>
      <TD>Row 1 Cell 3</TD>
  </TR>
  <TR>
      <TD>Row 2 Cell 2</TD>
      <TD>Row 2 Cell 3</TD>
  </TR>
  <TR>
      <TD COLSPAN=3>Row3 Cell 1</TD>
  </TR>
</TABLE>
```

(1 mark for <table> </table>)
(1 mark for all correct <tr> </tr>)
(1 mark for all correct <td> with correct values)
(½ mark for all correct rowspan = "...")
(½ mark for all correct colspan = "...")
(1 mark for correct nesting of all <tr></tr> and <td> </td> tags)

(c)	What is the meaning of backup and why is it essential ? Name any four devices to take data backup.		5
Ans.	Backup refers to Copying and Archieving data/information into an external permanent storage. It is essential as we can restore original data in case of loss or accidental damage of data. HARD DISK, CD, DVD, Pen Drive, SD Card, Magnetic Tapes, Cloud, Google Cloud *(½ Mark for correct definition/explanation of Backup)* *(½ Mark for correct explanation of Backup as a essential process)* *(1 Mark each for any four correct backup devices)*		
(d)	Identify which of the following is a tag or an attribute : **(i) Img** **(ii) A** **(iii) Align** **(iv) Color** **(v) Font** **(vi) Noshade**		3

	Ans.	**(i) Img - TAG** **(ii) A - TAG** **(iii) Align - Attribute** **(iv) Color - Attribute** **(v) Font - TAG** **(vi) Noshade - Attribute** *(½ Mark for each correct identification as TAG/Attribute)*	
	(e)	Sunila works in a MNC and works online from home also. She needs a fast internet connection. Which type of internet connection is best suited for her ? Also she needs to upload and download the files from remote sites. Which protocol will help her to perform this activity ?	2
	Ans.	DSL OR Broadband OR WiFi FTP *(1 Mark for each correct answer)*	
Q5.		**Long Answer Question:**	
	(a)	Observe the following output and write HTML code to generate it: Consider the following points while generating the web page : • The title of the page is "Shopping" • The heading is in red colour • Text colour is maroon • Font of entire document is Arial • Image used is "bazar.jpg" • The pages linked are : ♦ Clothing & Accessories to cloth.html ♦ Household Appliances to "house.html" ♦ Grocery to "grocery.html" • Bottom message is of size	10

	Ans.	```html
		<html>
		 <hesd>
		  <title>Shopping</title>
		 </hesd>
		  <body text="maroon">
		  <font face="Arial">
		``	

```
      <h2>
        <center><font color=red>e-SHOPPING</font></center>
      </h2>
      <h2>
        <center>All Your Shopping Needs Met With Mouse Click
        </center>
      </h2>
      <p>Availability of all possible leading brands. Guarantee
of quality and price. Free home delivery.
      <center><img src=images.jpeg></center>
      <p>We provide the following category of products.
      <ol>
        <li>
           <a href="cloth.html">Clothing & Accessories</a>
          <ul type=square>
              <li>Men
              <li>Women
              <li>Kids
          </ul>
        <li><a href="house.html">Household Appliances</a>
         <li><a href="grocery.html">Grocery</a>
      </ol>
      <hr>
      <p>
        <center>
           <font size=2>Shop Timings: 10am to 8.00 pm</font>
        </center>
      </p>
      </font>
   </body>
</html>
```

(1 Mark for the title of the page as "Shopping")
(1 Mark for the heading in red colour)
(1 Mark for Text colour as maroon)
(1 Mark for the Font of the entire document as Arial)
(1 Mark for the Image used as "images.jpg")
(1 Mark for linking Clothing & Accessories to "cloth.html")
(1 Mark for linking Household Appliances to ''house.html'')
(1 Mark for linking Grocery to "grocery .html")
(1 Mark for Bottom message of size 2)
(½ Mark for correct Ordered list)
(½ Mark for correct Unordered list)

NOTE:
- *Mark not to be deducted for not using the <hr> tag before the bottom message*
- *Mark not to be deducted for writing any extra tags which are not needed*

Q6		**Section B** **Multiple Choice Questions (Choose most appropriate option):** *(1 Mark for choosing each correct option)*	18
	(i)	Is it easier to process XML than HTML ? **(a) Yes** **(b) No** **(c) Sometimes** **(d) Can't say**	
	Ans.	**(a) Yes**	
	(ii)	Well formed XML document means **(a) It contains a root element** **(b) It contain an element** **(c) It contains one or more elements** **(d) Must contain one or more elements and root element must contain all other elements**	
	Ans.	**(d) Must contain one or more elements and root element must contain all other elements**	
	(iii)	Which of the following strings are a correct XML name ? **(a) myElement** **(b) my Element** **(c) #myElement** **(d) None of the above**	
	Ans.	**(a) myElement**	
	(iv)	XML uses the features of **(a) HTML** **(b) XHTML** **(c) VML** **(d) SGML**	
	Ans.	**(d) SGML**	
	(v)	How can we make attributes have multiple values : **(a) <myElement myAttribute="valuel value2"/>** **(b) <myElement myAttribute="value 1 " myAttribute="value2"/>** **(c) <myElement myAttribute="valuel, value2"/>** **(d) attributes cannot have multiple values**	
	Ans.	**(d) attributes cannot have multiple values**	
.	(vi)	The use of a DTD in XML development is : **(a) required when validating XML documents** **(b) no longer necessary after the XML editor has been customized** **(c) used to direct conversion using an XSLT processor** **(d) a good guide to populating a templates to be filled in when generating an XML document automatically**	
	Ans.	**(a) required when validating XML documents**	

	(vii)	`<b>` tag makes the enclosed text bold. What is other tag to make text bold ? **(a) `<strong>`** **(b) `<dar>`** **(c) `<black>`** **(d) `<emp>`**	
	Ans.	**(a) `<strong>`**	
	(viii)	Which tag allows you to add a row in a table? **(a) `<td>` and `</td>`** **(b) `<cr>` and `</cr>`** **(c) `<th>` and `</th>`** **(d) `<tr>` and `</tr>`**	
	Ans.	**(d) `<tr>` and `</tr>`**	
	(ix)	What is the correct HTML tag for adding a background color? **(a) `<body color="yellow">`** **(b) `<body bgcolor="yellow">`** **(c) `<background>yellow</background>`** **(d) `<body background="yellow">`**	
	Ans.	**(b) `<body bgcolor="yellow">`**	
	(x)	Choose the correct HTML tag for the smallest size heading ? **(a) `<heading>`** **(b) `<h6>`** **(c) `<h1>`** **(d) `<head>`**	
	Ans.	**(b) `<h6>`**	
	(xi)	What is the correct HTML tag for inserting a line break ? **(a) ` `** **(b) `<lb>`** **(c) `<break>`** **(d) `<newline>`**	
	Ans	**(a) ` `**	
	(xii)	Which of the following is not a pair tag ? **(a) `<p>`** **(b) `<u>`** **(c) `<i>`** **(d) `<img>`**	
	Ans.	**(d) `<img>`**	
	(xiii)	To create HTML document you require a **(a) Web page editing software** **(b) High powered computer** **(c) Just a notepad can be used** **(d) None of the above**	
	Ans.	**(c) Just a notepad can be used**	

	(xiv)	HTML documents are saved in **(a) Special binary format** **(b) Machine language codes** **(c) ASCII text** **(d) None of the above**	
	Ans.	**(c) ASCII text**	
	(xv)	What have caused the rise in computer crimes and new methods of committing old computer crimes ? **(a) Increased use of computer and expansion of the internet and its services.** **(b) New security methods of detecting computer crimes.** **(c) Creation of new software.** **(d) World wide web.**	
	Ans.	**(a) Increased use of computer and expansion of the internet and its services.**	
	(xvi)	What is a worm? **(a) A weakness in security system that never copies itself into a computer's memory until no more space is left.** **(b) A program that uses computer networks and security holes to copy itself in the computer memory until no more memory is left.** **(c) Attaches itself to e-mails.** **(d) Corrupts or replaces boot sector instructions.**	
	Ans.	**(b) A program that uses computer networks and security holes to copy itself in the computer memory until no more memory is left.**	
	(xvii)	How are viruses spread ? **(a) Through firewalls** **(b) Downloading infected programs and files from internet** **(c) Garbled information** **(d) Install anti-virus**	
	Ans.	**(b) Downloading infected programs and files from internet**	
	(xviii)	How do users prevent and protect themselves against viruses ? **(a) Do not open e-mail attachments, use an OS that has virus security features, scan other users' media storage devices before using them on your computer.** **(b) Missing files or folders should be deleted.** **(c) Files with weird and obscene messages should not be stored.** **(d) Delete unwanted SPAM from your computer.**	
	Ans.	**(a) Do not open e-mail attachments, use an OS that has virus security features, scan other users' media storage devices before using them on your computer.**	