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

		SECTION A	
Q1.		Fill in the blanks:	10
	(a)	_____ is used to change the colour of a visited link.	
	Ans.	vlink	
		(1 mark for writing correct word)	
	(b)	_____ are used to connect web pages. They are created with <A> tag.	
	Ans.	hyperlink OR href OR target	
		(1 mark for writing correct word)	
	(c)	_____ attribute is used to give border to an image.	
	Ans.	border	
		(1 mark for writing correct attribute)	
	(d)	_____ attribute with <HR> tag is used to specify colour of the line.	
	Ans.	color	
		(1 mark for writing correct attribute)	
	(e)	_____ is business in online environment.	
	Ans.	e-commerce	
		(1 mark for writing correct word)	
	(f)	_____ is a computer program that detects, prevents and takes action to remove malicious software programs.	
	Ans.	Antivirus.	
		(1 mark for writing correct word)	
	(g)	_____ is a software program that is designed to copy itself from one computer to another.	

	Ans.	Virus OR Worm	
		(1 mark for writing correct word)	
	(h)	In XML, _____ can't contain multiple values.	
	Ans.	Attributes.	
		(1 mark for writing correct word)	
	(i)	XML is a subset of _____	
	Ans.	SGML.	
		(1 mark for writing correct word)	
	(j)	<TD> tag can only be present inside _____ tag.	
	Ans.	<TR> OR <TABLE>	
		(1 mark for writing correct tag)	
Q2.		**State True or False:** *(1 mark for writing each correct option)*	10
	(a)	An XML document must have one root element.	
	Ans.	*True*	
	(b)	<I> tag displays text in bold.	
	Ans.	*False*	
	(c)	Cellpadding attribute is used with <BODY> tag.	
	Ans.	*False*	
	(d)	<Font> tag is one of the structural tag of HMTL document.	
	Ans.	*False*	
	(e)	<Caption> tag gives heading to a web page.	
	Ans.	*False*	
	(f)	<Head> defines the HTML header and does not affect the appearance of document.	
	Ans.	*True*	
	(g)	<TD> will make the text bold.	

	Ans.	*False*	
	(h)	One of the attribute of XML tag is TYPE.	
	Ans.	**False OR True**	
	(i)	Junk mails are also called spam.	
	Ans.	*True*	
	(j)	Cracker is a person who break security to see what we have stored on our computers with malintentions.	
	Ans.	*True*	
Q3.		**Short answer questions:**	**12**
	(a)	Write any two storage mediums for data backup.	
	Ans.	**CD, DVD, Hard disk, Blue ray disc,Pen drive etc.** *Note : Any other correct storage medium is acceptable.*	
		(1 mark for each of any 2 correct names of storage medium)	
	(b)	Write any two tips to avoid spams.	
	Ans.	● **Never click links in spam email.** ● **Do not open attachments in spam** ● **Create a filter to mail that you suspect is spam.** ● **Ensure not to display email address publicly** **OR any other two correct tips to avoid spams.**	
		(1 mark for each of any 2 correct ways to avoid spams)	
	(c)	Write the HTML code to display a table with border of 5px.	
	Ans.	``` <table border="5"> <tr> <td> Table with border 5 px </td> </tr> </table> ```	
		(1 mark for table tag) *(1 mark for border attribute)*	
	(d)	Write the full forms of : (i)ISP (ii)HTTP (iii)<DL> (iv) 	
	Ans.	**(i) ISP – Internet Service Provider** **(ii) HTTP – Hyper Text Transfer Protocol** **(iii) <DL> - Definition List** **(iv) - break**	
		(½ mark for writing each correct full form)	

	(e)	Write the HTML code to display an image on the right side of the page.	
	Ans.	`<img src="image.jpg" align=right>`	
		(1 mark for img tag) *(1 mark for align attribute with the value right)*	
	(f)	Name the attributes of <TABLE> tag which are used for specifying its dimensions in a web page.	
	Ans.	**Width and height**	
		(1 mark for writing each correct attribute)	
Q4.		**Short Answer Questions:**	

	(a)	a)Draw the XML tree for the code given below:
		
		`<Library>`
		`    <Books category="Thriller">`
		`        <Author> ABC</Author>`
		`        <Price>150</Price>`
		`    </Books>`
		`    <Books category="Fiction">`
		`        <Author> EFG</Author>`
		`        <Price>250</Price>`
		`    </Books>`
		`</Library>`
			5

	Ans.	 **OR** **Any other similar representation for Tree**	
		(1 mark for Root element Library) **(1 mark for correctly representing Table element)** **(1/2 mark for using each correct attribute category="Thriller" and category="Fiction" within Library element)**	

		(1 mark for Elements Author(ABC), Price(150) **(1 mark for Elements Author(EFG), Price(250)**	
	(b)	Observe the following table and write the HTML code to generate it: Activities Sr School — Maths Club / Robotics Club / Photography Middle School — Gymnastics / Yoga / Computer Club Primary School — Dance / Vocal Music / Swimming	5

| Ans. | ```
<html>
    <body>
        <table>
            <caption>Activities</caption>
                <tr>
                    <td rowspan=3>Sr School</td>
                    <td>Maths Club</td>
                </tr>
                <tr><td>Robotics Club</td></tr>
                <tr><td>Photography </td></tr>
                <tr>
                   <td rowspan=3>Middle School</td>
                   <td>Gymnastics </td>
                </tr>
                <tr><td>Yoga </td></tr>
                <tr><td>Computer Club </td></tr>
                <tr>
                   <td rowspan=3>Primary School</td>
                   <td>Dance   </td>
                </tr>
                <tr><td>Vocal Music </td></tr>
                <tr><td>Swimming </td></tr>
        </table>
    </body>
</html>
``` | |

		(1 mark for <table> </table>) **(1 mark for all correct <tr> </tr>)** **(1 mark for all correct <td> with correct values)** **(1 mark for all correct <td rowspan="3">)** **(1 mark for correct nesting of all<tr></tr> and <td></td> tags)**	

	(c)	**Answer the following questions:**	
		(i) In a small office network, to protect every computer from hackers,virus or worm. Which statement do you think is True or False from the given options: (a) Set Firewall turned on. (b) Install antivirus software. (c) Allow users to use external disk drives. (d) Download attachments from reliable source even without scanning.	1
	Ans.	**(a) True** **(b) True** **(c) False** **(d) False**	
		(½ mark for each of any two correct parts)	
		(ii) Mohan has downloaded few attachments in his mail to his system from internet. When he opened those attachments there were multiple copies of the same file opened. After sometime his system got reboot automatically. He is unable to find out why his system is not responding properly. Can you tell what happened to his system and give him some solution?	2
	Ans.	**Reason** ● **There is a virus in Mohan's computer that has caused damage to the data and files on his system.** **Solution** ● **He should install antivirus software, such as Quick Heal, Kaspersky, McAfee, etc. as the main defense against online problems.** ● **He should take backup of the files regularly.**	
		(1 mark for one correct reason) *(1 mark for one correct solution)*	
		(iii) Name any four data backup devices/mediums.	2
	Ans.	**CD, DVD, Hard disk, Blue ray disc,Pen drive etc.** *Note : Any other correct storage medium is acceptable.*	
		(1 mark for each of any 2 correct names of storage medium)	
	(d)	Identify which of the following is a tag or an attribute: (i)HR (ii)BR (iii)P (iv)Align (v)Text	5
	Ans.	**(i) Tag** **(ii) Tag** **(iii) Tag** **(iv) Attribute** **(v) Attribute**	
		(1 mark for each correct answer)	
Q5.		**Long answer questions:**	
	(a)	Observe the following web page and write the HTML code to generate it.	10

IMPORTANCE OF CLEANLINESS

Cleanliness is not a work which we should do forcefully. It is a good habit and healthy way of our healthy life. All type of cleanliness is very necessary for our good
health whether it is personal cleanliness surrounding cleanliness. environment cleanliness, pet animal cleanliness or work place cleanliness (like school, college, office etc). We all should be highly aware about how to maintain cleanliness in our
daily lives.
Factors affecting the environment
1.   Industrial activities
2.   Vehicles
3.   Rapid urbanization and industrialization
4.   Population overgrowth
Effects

Water Pollution is leading to a number of incurable diseases
Because of Air Pollution there are increasing caSe of pulmonary tuberculosis and thrombosis and various sorts of brain and heart complications.
Digital Media
Soil-pollution may have negative effects on farm output ratio
Noise-pollution have negative effects on hearing or auditory sense organs
Thermal Pollution is raising the environmental temperature

For more details click here

Note the following points while generating the web page.
❖ Title of page is "Cleanliness"
❖ Link color in green
❖ Font style for the page is arial
❖ Heading of the page is maroon
❖ Image used is environment .jpg
❖ Table border is 2px and border color is red
❖ Link for bottom message is contact.html

Ans.

```
<html>
  <head>
    <title>Cleanliness</title>
  </head>
  <body link="green">
  <basefont face="Arial">
  <h1 align="center">
    <font color="maroon">IMPORTANCE OF CLEANLINESS
    </font>
  </h1>
  <hr>
```

```
  <img src="clean.jpg" align="left">
  <p>Cleanliness is not a work which we should do forcefully.
It is a good habit and <br> healthy way of our healthy life.
All types of cleanliness is very necessary for our
good<br>health whether it is personal cleanliness surrounding
cleanliness. environment<br> cleanliness, pet animal
cleanliness or work place cleanliness(like school, college,
<br> office etc). We all should be highly aware about how to
maintain cleanliness in our <br> daily lives.<br>
    </p>
    <br><br><br>
    <u>Factors affecting the environment</u>
    <ol>
      <li>Industrial Activities
      <li>Vehicles
      <li>Rapid urbanization and industrialization
      <li>Population overgrowth
    </ol>
    <table border="2"  bordercolor="red"
     align="center">
    <caption> Effects</caption>
    <tr>
      <td>Water pollution is leading to a number of
          incurable diseases</td>
    </tr>
    <tr>
      <td>Because of Air Pollution there are
          increasing case of pulmonary tuberculosis
          and thrombosis and various sorts of brain
          and heart complications</td>
    </tr>
    <tr><td>Digital Media</td></tr>
    <tr>
       <td>Soil-pollution may have negative effects
           on farm output ratio</td>
    </tr>
    <tr>
      <td>Noise-pollution have negative effects on
          hearing or auditory sense organs</td>
    </tr>
    <tr>
       <td>Thermal pollution is raising the
           environmental temperature</td>
    </tr>
   </table>
   <hr>
   <p align=center>For more details <a href=
      "contact.html">Click Here</a>
   </p>
 </body>
</html>
```

		(1 mark for Title of page as "Cleanliness") **(1 mark for Link color as green)** **(1 mark for font style for the page as arial)** **(1 mark for heading of the page as maroon)** **(1 mark for image used as clean.jpg)** **(1 mark for the correct table structure including \<TR\> and \<TD\> tags)** **(1 mark for using \<OL\>)** **(½ mark for table border as 2px)** **(½ mark for table border color as red)** **(1 mark for linking click here to contact.html)** **(½ mark for complete html code)** **(½ mark for using \<HR\> tag)**	
	(b)	(i) Write two points of difference in HTML and XML.	2

	Ans.	(i)
		1) HTML document formats and displays web page's data.
		      XML documents carry data along with their description.
		2) HTML tags are predefined.
		   XML tags are not predefined. They are user defined.
		3) HTML tags are not case sensitive
		   XML tags are case sensitive
		OR
		Any other two correct differences	

		(1 mark for each of 2 differences)	
		(ii) Write three points of well formed XML document.	3
		(ii) 　● **XML documents must have only one root element.** 　● **All the tags must be nested properly.** 　● **Attribute values must always be quoted.** **OR any other correct points of well formed XML document.**	
		(1 mark for each correct points)	
		(iii) Write the code to create an XML document to present the following data. <table><tr><td>Furniture</td><td>Material</td><td>Quantity</td><td>Floor</td></tr><tr><td>Table</td><td>Wood</td><td>75</td><td>Ist</td></tr><tr><td>Chair</td><td>Plastic</td><td>85</td><td>IInd</td></tr></table>	5
		(iii) ``` <FurnitureStock> <Stock> <Furniture>Table</Furniture> <Material>Wood</Material> <Quantity>75</Quantity> <Floor>Ist</Floor> </Stock> ```	

```
                    <Stock>
                        <Furniture> Chair</Furniture>
                        <Material>Plastic</Material>
                        <Quantity>85</Quantity>
                        <Floor>IInd</Floor>
                    </Stock>
            </FurnitureStock>
```

(1 mark for root element)
(1 mark for appropriate use of FurnitureStock or its equivalent element)
(½ mark each for appropriate use of Furniture, Material, Quantity and Floor elements)
(1 mark for proper nesting of all elements)

		SECTION B	
Q6.		**Multiple Choice Questions:(Choose most appropriate option)** *(1 mark for each correct answer)*	**18**
	(i)	Valid XML document means: (a) The document has root element. (b) The document contains at least one or more root element. (c) The XML document has DTD associated with it and it complies with that DTD. (d) Each element must nest inside any enclosing element properly.	
	Ans.	**(c) The XML document has DTD associated with it and it complies with that DTD**	
	(ii)	Alt attribute allows: (a) Addition of an alternative hyperlink. (b) Addition of a border to image. (c) Use of an alternative image in place of the specified image. (d) Addition of alternative text about an image.	
	Ans.	**(d) Addition of alternative text about an image**	
	(iii)	What does DTD stand for? (a) Dynamic Type Definition (b) Dynamic Type Declaration (c) Document Type Declaration (d) Document Type Definition	
	Ans.	**(d) Document Type Definition**	
	(iv)	The <HR> tag inserts _____ on a web page. (a) A straight line (b) a border (b) A circle (d) none of these	
	Ans.	(a) **A straight line**	
	(v)	Choose correct HTML tag for the largest heading: (a)<H1> (c) <Big heading> (b)<H6> (d) <H size=1>	
	Ans.	**(a) <H1>**	
	(vi)	Which one of the following is not a malware?	

		(a)Computer Virus (b) SPAM (c) WORM (d) Application Software	
	Ans.	**(d) Application Software**	

	(vii)	Which of the following is not way to get a computer virus?
		    (a) Through email attachments
		    (b) Through pen drive
		    (c) By typing on keyboard
		    (d) By downloading files	

	Ans.	**(c) By typing on keyboard**	

	(viii)	One limitation of antivirus program is that they:
		    (a) Sometimes start behaving like virus.
		    (b) Are very expensive.
		    (c) Harm the computer.
		    (d) Can detect only those viruses for which they are programmed.	

	Ans.	**(d) Can detect only those viruses for which they are programmed.**	

	(ix)	Firewall:
		    (a) Amplifies weak outgoing signals to stronger ones.
		    (b) Is the name of an open source browser.
		    (c) Is the name of computer virus.
		    (d) Prevents intruders from accession your system.	

	Ans.	**(d) Prevents intruders from accession your system**	

	(x)	Which attribute is not valid for <body> tag?
		    (a) Bgcolor (b) Text
		    (b) Color (d) Topmargin	

	Ans.	**(b) Color**	

	(xi)	To display "bullets" against list items we use:
		    (a) <OL> (c) both of them
		    (b) <UL> (d) None of them	

	Ans.	**(b) <UL>**	

	(xii)	Which of these tags belong to <table> tag?
		    (a) <thread> <body> <tr> (c) <table> <tr> <td>
		    (b) <table> <head> <tfoot> (d) <table> <tr> <tt>	

	Ans.	**(c) <table> <tr> <td>**	

	(xiii)	What does XML stand for?
		    (a) Extra Markup Language (c) Example Markup Language
		    (b) Extensible Markup Language (d) None of the above	

	Ans.	**(b) Extensible Markup Language**	
	(xiv)	Comment in XML can be given by : (a) <?--> (b) <!--> (c) <?!----> (d) <!?---->	
	Ans.	**(b) <!-->**	
	(xv)	Which one of the following is not an option for aligning data in a table?	

		(a) Justify (b) right (c) left (d) center	
	Ans.	**(a) Justify**	
	(xvi)	With which code you can make an image work as a link? (a) <A href="URL"> Text </A> (b) <A href=ABC.html><img src=graphic.gif>Click Here</A> (c) <A href=mailto:<img src=graphic.gif>Click Here</A> (d) None of above	
	Ans.	**(b) <A href=ABC.html> <img src=graphic.gif>Click Here</A>** **OR** **(d) None of above**	
	(xvii)	XML uses: (a) Only 5 tags (c) Custom tags (b) Predefined tags (d) HTML tags	
	Ans.	**(c) Custom tags**	
	(xviii)	In XML value of attribute must appear: (a) In uppercase (c) In quotes (b) In Brackets (d) In lowercase	
	Ans.	**(c) In quotes**	