

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)	In XML_____can't contain multiple values.	
	Ans.	Attributes	
		<i>(1 mark for writing correct word)</i>	
	(b)	XML is subset of_____	
	Ans.	SGML	
		<i>(1 mark for writing correct word)</i>	
	(c)	<TD> tag can only be present inside_____tag.	
	Ans.	<TR>	
		<i>(1 mark for writing correct tag)</i>	
	(d)	_____ is used to change the colour of a visited link.	
	Ans.	vlink	
		<i>(1 mark for writing correct word)</i>	
	(e)	_____are used to connect web pages. They are created with <A> tag.	
	Ans.	hyperlinks OR href OR target	
		<i>(1 mark for writing correct word)</i>	
	(f)	_____attribute is used to give border to an image.	
	Ans.	border	
		<i>(1 mark for writing correct attribute)</i>	
	(g)	_____attribute with <HR> tag is used to specify colour of the line.	
	Ans.	color	
		<i>(1 mark for writing correct attribute)</i>	

	(h)	_____ is business in online environment.	
	Ans.	E-commerce	
		<i>(1 mark for writing correct word)</i>	
	(i)	_____ is a computer program that detects, prevents and takes action to remove malicious software programs.	
	Ans.	Antivirus	
		<i>(1 mark for writing correct word)</i>	
	(j)	_____ is a software program that is designed to copy itself from one computer to another.	
	Ans.	Virus or worm	
		<i>(1 mark for writing correct word)</i>	
Q2.		State True False: <i>(1 mark for writing each correct option)</i>	10
	(a)	One of the attributes of XML tag is TYPE.	
	Ans.	False or True	
	(b)	Junk emails are also called spam.	
	Ans.	True	
	(c)	Cracker is a person who break security to see what we have stored on our computers with malintentions.	
	Ans.	True	
	(d)	An XML document must have one root element.	
	Ans.	True	
	(e)	<I> tag displays text in bold.	
	Ans.	False	
	(f)	Cellpadding attribute is used with <BODY> tag.	
	Ans.	False	
	(g)	 tag is one of the structural tag of HTML document.	

	Ans.	False	
	(h)	<Caption> tag gives heading to a web page.	
	Ans.	False	
	(i)	<Head> defines the HTML header and does not affect the appearance of document.	
	Ans.	True	
	(j)	<TD> will make the text bold.	
	Ans.	False	
Q3.		Short Answer Questions	
	(a)	Write any two storage mediums for data backup.	2
	Ans.	USB thumb drive; an external USB or Firewire hard disk drive; or a tape backup device. Private Cloud Backup, CD, DVD, DROP BOX, Google drive etc.	
		<i>(1 mark for each of any 2 correct names of storage medium)</i>	
	(b)	Write any two ways to avoid SPAMS.	2
	Ans.	<ul style="list-style-type: none"> ● 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.	
		<i>(1 mark for each of any 2 correct ways to avoid spams)</i>	
	(c)	Write the HTML code to display a table with border of 5px.	2
	Ans.	<pre><table border="5"> <tr> <td> Table with border 5 px </td> </tr> </table></pre>	
		<i>(1 mark for table tag) (1 mark for border attribute)</i>	
	(d)	Write the full forms of : (i)ISP (ii)HTTP (iii)<DL> (iv) 	2
	Ans.	(i)ISP - Internet Service Provider (ii)HTTP - Hyper Text Transfer Protocol (iii)<DL> - Definition List (iv) - break	
		<i>(½ mark for writing each correct full form)</i>	

	(e)	Write the HTML code to display an image on the right side of page.	2
	Ans.	<code></code>	
		<i>(1 mark for img tag) (1 mark for align attribute with the value right)</i>	
	(f)	Name the attributes of <TABLE> tag which are used for specifying its dimensions in a web page.	2
	Ans	Width and height	
		<i>(1 mark for writing each correct attribute)</i>	
Q4.		Short answer questions.	
	(a)	Draw the XML tree for the code given below: <pre> <Library> <Books category = "Thriller"> <Author>ABC</Author> <Price> 150 </Price> </Books> <Books category = "Fiction"> <Author>EFG</Author> <Price> 250 </Price> </Books> </Library> </pre>	5
	Ans:	<div style="text-align: center;"> <pre> graph TD Library[Library] --> Books1["Books (category='Thriller')"] Library --> Books2["Books (category='Fiction')"] Books1 --> Author1["Author (ABC)"] Books1 --> Price1["Price (150)"] Books2 --> Author2["Author (EFG)"] Books2 --> Price2["Price (250)"] </pre> <p>OR Any other similar representation for Tree</p> </div>	
		<i>(1 mark for Root element Library) (1 mark for correctly representing Table element) (½ 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)</i>	


(b)	<p>Observe the following table and write the HTML code to generate it.</p> <p align="center">Activities</p> <table border="1"> <tr> <td data-bbox="464 232 759 344" rowspan="3">Sr School</td> <td data-bbox="759 232 1027 271">Maths Club</td> </tr> <tr> <td data-bbox="759 271 1027 309">Robotics Club</td> </tr> <tr> <td data-bbox="759 309 1027 344">Photography</td> </tr> <tr> <td data-bbox="464 344 759 456" rowspan="3">Middle School</td> <td data-bbox="759 344 1027 383">Gymnastic</td> </tr> <tr> <td data-bbox="759 383 1027 421">Yoga</td> </tr> <tr> <td data-bbox="759 421 1027 456">Computer Club</td> </tr> <tr> <td data-bbox="464 456 759 568" rowspan="3">Primary School</td> <td data-bbox="759 456 1027 495">Dance</td> </tr> <tr> <td data-bbox="759 495 1027 533">Vocal Music</td> </tr> <tr> <td data-bbox="759 533 1027 568">Swimming</td> </tr> </table>	Sr School	Maths Club	Robotics Club	Photography	Middle School	Gymnastic	Yoga	Computer Club	Primary School	Dance	Vocal Music	Swimming	5
Sr School	Maths Club													
	Robotics Club													
	Photography													
Middle School	Gymnastic													
	Yoga													
	Computer Club													
Primary School	Dance													
	Vocal Music													
	Swimming													

Ans:	<pre> <html> <body> <table border> <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> </pre>	
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	<p>(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)</p>	
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(c)	<p>Answer the following questions:</p> <p>(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:</p> <p>a. Set Firewall Turned On b. Install antivirus software</p>	1
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		c. Allow users to use external disk drives d. Download attachments from reliable source even without scanning	
	Ans	a. True b. True c. False d. False	
		<i>(½ mark for each of any two correct parts)</i>	
		(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 some time 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 <ul style="list-style-type: none"> • There is a virus in Mohan’s computer that has caused damage to the data and files on his system. Solution <ul style="list-style-type: none"> • 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. 	
		<i>(1 mark for one correct reason) (1 mark for one correct solution)</i>	
		(iii) Name 4 data backup devices/mediums.	2
	Ans	CD, DVD, Hard disk, Blue ray disc, Pen drive etc. <i>Note : Any other correct storage medium is acceptable.</i>	
		<i>(1 mark for each of any 2 correct names of storage medium)</i>	
	(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	
		<i>(1 mark for each correct answer)</i>	
Q5		Long answer questions:	10
	(a)	Observe the following web page and write HTML code to generate it.	

		<p align="center">CLEAN ENVIRONMENT</p>  <p>Pollution refers to the introduction of harmful pollutants into the environment. The major types of environmental pollution are air pollution, water pollution, noise pollution, thermal pollution, soil pollution and light pollution.</p> <p>With the dawn of the age of science and technology, there has been huge growth and development of human potentials. And, it is here that man first began losing control and became prisoner of his own creations.</p> <p>Factors affecting the environment</p> <ol style="list-style-type: none"> 1. Industrial activities 2. Vehicles 3. Rapid urbanization and industrialization 4. Population overgrowth <p align="center">Effects</p> <table border="1"> <tr> <td>Water Pollution is leading to a number of incurable diseases</td> </tr> <tr> <td>Because of Air Pollution there are increasing cases 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 effect on farm output rate</td> </tr> <tr> <td>Noise Pollution has negative affects on hearing or auditory sense organs</td> </tr> <tr> <td>Thermal Pollution is raising the environmental temperature</td> </tr> </table> <p align="center">For more details click here</p> <hr/> <p>Note the following points while generating the web page.</p> <ul style="list-style-type: none"> ❖ Title of page is "Environment" ❖ 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 	Water Pollution is leading to a number of incurable diseases	Because of Air Pollution there are increasing cases of pulmonary tuberculosis and thrombosis and various sorts of brain and heart complications	Digital Media	Soil Pollution may have negative effect on farm output rate	Noise Pollution has negative affects on hearing or auditory sense organs	Thermal Pollution is raising the environmental temperature	
Water Pollution is leading to a number of incurable diseases									
Because of Air Pollution there are increasing cases of pulmonary tuberculosis and thrombosis and various sorts of brain and heart complications									
Digital Media									
Soil Pollution may have negative effect on farm output rate									
Noise Pollution has negative affects on hearing or auditory sense organs									
Thermal Pollution is raising the environmental temperature									
<p>Ans.</p>		<pre> <html> <head> <title>Environment</title> </head> <body link="green"> <basefont face="Arial"> <h1 align="center"> IMPORTANCE OF CLEANLINESS </h1> </body> </html> </pre>							

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<p>
Pollution refers to the introduction of harmful pollutants into
the environment.<br>
The major types of environmental pollution are air pollution,
water pollution, noise pollution, thermal pollution, soil
pollution and light pollution.<br>
With the dawn of the age of science and technology, there has
been huge growth and development of human potentials.<br>
And, it is here that man first began losing control and became
prisoner of his own creations.
</p>

<b>Factors affecting the environment</b>
<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>
<hr>
</body>
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		</html>													
		(1 mark for Title of page as “Environment“ OR “Clean Environment”) (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 environment.jpg) (1 mark for the correct table structure including <TR> and <TD> tags) (1 mark for using) (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 between 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												
	Ans.	(ii) <ul style="list-style-type: none"> • 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 following data:	5												
		<table border="1"> <thead> <tr> <th>Furniture</th> <th>Material</th> <th>Quantity</th> <th>Floor</th> </tr> </thead> <tbody> <tr> <td>Table</td> <td>Wood</td> <td>75</td> <td>1st</td> </tr> <tr> <td>Chair</td> <td>Plastic</td> <td>85</td> <td>IInd</td> </tr> </tbody> </table>	Furniture	Material	Quantity	Floor	Table	Wood	75	1st	Chair	Plastic	85	IInd	
Furniture	Material	Quantity	Floor												
Table	Wood	75	1st												
Chair	Plastic	85	IInd												
	Ans.	(iii) <FurnitureStock> <Stock> <Furniture>Table</Furniture> <Material>Wood</Material> <Quantity>75</Quantity> <Floor>Ist</Floor>													

		<pre> </Stock> <Stock> <Furniture> Chair</Furniture> <Material>Plastic</Material> <Quantity>85</Quantity> <Floor>IInd</Floor> </Stock> </FurnitureStock> </pre>	
		<p>(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)</p>	
		SECTION B	
Q6.		Multiple Choice Questions:(Choose most appropriate option) <i>(1 mark for each correct answer)</i>	18
	(i)	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	
	(ii)	With which code you can make an image work as a link (a) Text (b) Click Here (c) <A ref = mailto :< img src = graphic.gif>Click Here (d) None of above	
	Ans:	(b) Click Here </ A> OR (d) None of above	
	(iii)	XML uses (a) Only 5 tags (b) Predefined tags (c) Custom tags (d) HTML tags	
	Ans:	(c) Custom tags	
	(iv)	In XML value of attribute must appear (a) In uppercase (b) In brackets (c) In quotes (d) In lowercase	
	Ans.	(c) In quotes	
	(v)	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	
	(vi)	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	
	(vii)	What does DTD stands for (a) Dynamic Type Definition (b) Dynamic Type Declaration (c) Document Type Declaration (d) Document Type Definition	
	Ans	(d) Document Type Definition	
	(viii)	The <HR> tag inserts on a web page (a) A straight line (b) A circle (c) A border (d) None of these	
	Ans	(a) A straight line	
	(ix)	Choose correct HTML tag for the largest heading (a) <H1> (b) <H6> (c) <Big heading> (d) <H size = 1>	
	Ans.	(a) <H1>	
	(x)	Which one of the following is not a malware (a) Computer Virus (b) SPAM (c) WORM (d) Application Software	
	Ans.	(d) Application Software	
	(xi)	Which one of the following is not a 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	
	(xii)	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.	
(xiii)	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 accessing your system	
Ans.	(d) Prevents intruders from accessing your system	
(xiv)	Which attribute is not valid for <body> tag (a) Bgcolor (b) Color (c) Text (d) Topmargin	
Ans.	(b) Color	
(xv)	To display "bullets" against list items we use (a) (b) (c) Both of them (d) None of them	
Ans	(b) 	
(xvi)	Which of these tags belong to <table> tag (a) <thead> <body> <tr> (b) <table> <head> <tfoot> (c) <table> <tr> <td> (d) <table> <tr> <tt>	
Ans.	(c) <table> <tr> <td>	
(xvii)	What does XML stand for (a) Extra Markup Language (b) Extensible Markup Language (c) Example Markup Language (d) None of the above	
Ans.	(b) Extensible Markup Language	
(xviii)	Comment in XML can be given by (a) <?--> (b) <!--> (c) <?!-----> (d) <!?----->	
Ans	(b) <!-->	