

**CBSE AISSE 2015 Foundation of Information Technology (Subject Code 165 Paper Code No. 53)
Marking Scheme**

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 typecase/format/additional attributes, 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 a software that is downloaded into your computer to track your activities without your knowledge.	
	Ans.	Spyware <i>(1 mark for writing correct word)</i>	
	(b)	_____ includes viruses, data miners, Trojan horses and other programs designed to damage or destroy a computer.	
	Ans.	Malware <i>(1 mark for writing correct word)</i>	
	(c)	_____ protects a server, a network and an individual PC from attack by viruses from other systems.	
	Ans.	Anti-Virus OR Firewall <i>(1 mark for writing any of the above correct word)</i>	
	(d)	_____ tags are case sensitive and _____ tags are not case sensitive.	
	Ans.	XML, HTML <i>(½ mark for writing each correct word)</i>	
	(e)	_____ tag creates a bulleted list.	
	Ans.	UL <i>(1 mark for writing correct tag)</i>	
	(f)	_____ tag is used to create a table row.	
	Ans.	TR <i>(1 mark for writing correct tag)</i>	
	(g)	_____ attribute with <A> tag is used to open a link a new window.	
	Ans.	TARGET OR HREF <i>(1 mark for writing any of the above mentioned attribute)</i>	

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	(h)	Text written with _____ attribute appears like a tool tip in internet explorer.	
	Ans.	ALT <i>(1 mark for writing correct attribute)</i>	
	(i)	_____attribute with <HR> tag is used to specify thickness of the line.	
	Ans.	SIZE <i>(1 mark for writing correct attribute)</i>	
Q2.		State True or False: <i>(1 mark for writing each correct option)</i>	10
	(a)	Line breaks are given through .	
	Ans.	True	
	(b)	HTML is a programming language.	
	Ans.	False	
	(c)	The default font size is 5.	
	Ans.	False	
	(d)	XML uses DTD to describe the data.	
	Ans.	True	
	(e)	To avoid spam never click on links that come from someone you do not know.	
	Ans.	True	
	(f)	Hacker is a person who breaks security with malintention to start what we have stored on our computers.	
	Ans.	True OR False <i>Note: Any of the options because the language has ambiguity</i> <i>(Full mark to be awarded for attempting the question)</i>	
	(g)	Attributes of XML tags are expandable.	
	Ans.	True	
	(h)	Color attribute is used with <P> tag.	
	Ans.	False	
	(i)	Cellpadding attribute is used to specify distance between two cells.	
	Ans.	False	
	(j)	<Title> tag is one of the structural tags of HTML document.	
	Ans.	True	

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Q3.		Short answer questions:	12
	(a)	Write any two advantages of online backup.	
	Ans.	<ul style="list-style-type: none"> ● Data is available anywhere in the world at any time. ● No hardware needed to maintain the backup. ● Risk of data loss through natural disasters such as hardware theft or fire is comparatively reduced. <p><i>Note: Any two of the above or similar advantage is acceptable.</i></p> <p><i>(1 mark for writing each correct advantage)</i></p>	
	(b)	What does an antivirus software do?	
	Ans.	<p>Anti virus software is a computer program that detects, prevents and disarms or removes malicious software program(s) such as viruses and/or worms.</p> <p><i>Note: Any other similar correct usage is acceptable.</i></p> <p><i>(2 marks for writing correct usage)</i></p>	
	(c)	Write the HTML code to display horizontal line of red colour.	
	Ans.	<pre><hr color="red"></pre> <p><i>(1 mark for HR tag, 1 mark for color attribute)</i></p>	
	(d)	Write the full forms of:	
		<ul style="list-style-type: none"> (i) XML (ii) FTP (iii) (iv) <HR> 	
	Ans.	<ul style="list-style-type: none"> (i) eXtensible Markup Language (ii) File Transfer Protocol (iii) image (iv) Horizontal Rule <p><i>(½ mark for writing each correct full form)</i></p>	
	(e)	Write the HTML code to create a paragraph whose text colour is blue.	
	Ans.	<pre><p> </p></pre> <p>OR</p> <pre><p style="color:blue"></pre> <p><i>(1 mark for p tag)</i> <i>(1 mark for color attribute)</i></p>	

	(f)	Name the attributes of tag which are used for specifying its dimension in a web page.																			
	Ans.	<p>height width</p> <p><i>(1 mark for writing each correct attribute)</i></p>																			
Q4.		Short answer questions:																			
	(a)	<p>Draw the XML tree for the code given below.</p> <pre> <furniture> <Table material="wood"> <Primary>100</Primary> <Middle>150</Middle> <Senior>150</Senior> </Table> <Table material="plastic"> <Primary>200</Primary> <Middle>135</Middle> <Senior>150</Senior> </Table> </furniture> </pre>	5																		
	Ans.	<div style="text-align: center;"> <pre> graph TD furniture[furniture] --> TableWood["Table (Material = "wood")"] furniture --> TablePlastic["Table (Material = "plastic")"] TableWood --> PrimaryWood["Primary (100)"] TableWood --> MiddleWood["Middle (150)"] TableWood --> SeniorWood["Senior (150)"] TablePlastic --> PrimaryPlastic["Primary (200)"] TablePlastic --> MiddlePlastic["Middle (135)"] TablePlastic --> SeniorPlastic["Senior (150)"] </pre> </div> <p>OR</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td colspan="6">furniture</td> </tr> <tr> <td colspan="3">Table (material = "wood")</td> <td colspan="3">Table (material = "plastic")</td> </tr> <tr> <td>Primary (100)</td> <td>Middle (150)</td> <td>Senior (150)</td> <td>Primary (200)</td> <td>Middle (135)</td> <td>Senior (150)</td> </tr> </table> <p>OR</p> <p><i>Any other similar representation for Tree</i></p> <p><i>(1 mark for Root Element furniture)</i></p> <p><i>(1 mark for correctly representing Table element)</i></p>	furniture						Table (material = "wood")			Table (material = "plastic")			Primary (100)	Middle (150)	Senior (150)	Primary (200)	Middle (135)	Senior (150)	
furniture																					
Table (material = "wood")			Table (material = "plastic")																		
Primary (100)	Middle (150)	Senior (150)	Primary (200)	Middle (135)	Senior (150)																

		<p><i>(½ mark for using each correct attribute material = “wood” and material = “plastic” within furniture element)</i></p> <p><i>(1 mark for Elements Primary (100), Middle (150), Senior (150) under Table (material = “wood”))</i></p> <p><i>(1 mark for Elements Primary (200), Middle (135), Senior (150) under Table (material = “plastic”))</i></p>											
	(b)	<p>Observe the following table and write the HTML code to generate it.</p> <table border="1"> <tr> <td rowspan="2">English</td> <td>Grammar</td> </tr> <tr> <td>Comprehension</td> </tr> <tr> <td rowspan="2">Maths</td> <td>Algebra</td> </tr> <tr> <td>Physics</td> </tr> <tr> <td rowspan="3">Science</td> <td>Physics</td> </tr> <tr> <td>Chemistry</td> </tr> <tr> <td>Biology</td> </tr> </table>	English	Grammar	Comprehension	Maths	Algebra	Physics	Science	Physics	Chemistry	Biology	5
English	Grammar												
	Comprehension												
Maths	Algebra												
	Physics												
Science	Physics												
	Chemistry												
	Biology												
Ans.		<pre> <table> <tr> <td rowspan=2>English</td> <td>Grammar</td> </tr> <tr> <td>Comprehension</td> </tr> <tr> <td rowspan=2>Maths</td> <td>Algebra</td> </tr> <tr> <td>Physics</td> </tr> <tr> <td rowspan=3>Science</td> <td>Physics</td> </tr> <tr> <td>Chemistry</td> </tr> <tr> <td>Biology</td> </tr> </table> </pre> <p><i>(1 mark for <table> </table>)</i> <i>(1 mark for all correct <tr> </tr>)</i> <i>(1 mark for all correct <td> with correct values)</i> <i>(1 mark for all correct <td rowspan = “...”>)</i> <i>(1 mark for correct nesting of all <tr></tr> and <td> </td> tags)</i></p>											

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	(c)	Answer the following question:	
		i) Srinivasan is working for an IT firm where he needs to backup his data of around 200 MB to 400 MB at the end of each day. Each day backup needs to be archived separately for future reference. Suggest any two economic data backup devices, which he can use for this purpose.	1
	Ans.	CD, DVD, PenDrive, Google Drive, Dropbox, Floppy Disk <i>(1/2 mark for each for any 2 correct names of backup devices)</i>	
		ii) Differentiate between hackers and crackers with reference to their intention and motive.	2
	Ans.	A hacker breaks security for non-malicious reasons to test the security of a system A cracker is a person who violates computer security for malicious intentions or for personal gain <i>(1 mark for each correct definition/explanation)</i> OR <i>(Full 2 Marks for any other correct difference between the two)</i>	
		iii) Name one specific software tool for each of the following categories. a) Antivirus b) Data recovery tools c) Online backup tool d) Text editor	2
	Ans.	Antivirus: Microsoft Security Essentials, Defender, Kaspersky, Norton, McAfee, Avast, AVG, Avira, Quick heal, Panda, PC Cillin, Bit Defender, Trend Micro, Eset Nod32, F Secure, Optima AV, GData, Zone Alarm. Data recovery tool: Free Undelete, NTFS Reader, Pandora, Recuva, Norton, Symantec data, Wise Data Rescue PC, PC Inspector, Active File Recovery, Win Hex, Test Disk, Ontrack Easy Recovery, Recover My Files, Stellar Phoenix, Salvag. Online backup tool: Google Drive, Dropbox, My PC Backup, Just Cloud, Backup Genie, Zip Cloud, SOS, IBackup, IDrive, MyOther Drive, Mozy, Box, Keep It, Backupify, Jungle Disk, Livedrive, Nextiva, Carbonite, Back blaze. Text editor: Notepad, Gedit, Sublime Text, Notepad++, Notepad2, Notezilla <i>Note: Any other correct name for the above categories to be considered (1/2 mark for one correct name for each category)</i>	
	(d)	Identify which of the following is a tag or an attribute i) border ii) img iii) alt iv) src v) href	5

	Ans.	<p>(i) border - attribute (ii) img - tag (iii) alt - attribute (iv) src - attribute (v) href - attribute</p> <p><i>(1 mark for each correct identification)</i></p>					
Q5		Long answer question.					
	(a)	Observe the following web page and write the HTML code to generate it.	10				
		<p align="center">GLOBAL WARMING</p> <p>Global warming is the observed century-scale rise in the average temperature of the earth climate system.</p> <p>Since the early 20th century, the global air and sea surface temperature has increased about 0.8 °C (1.4 °F), with about two-thirds of the increase occurring since 1980. Initial causes of temperature changes:</p> <ul style="list-style-type: none"> ● <u>Greenhouse gases</u> ● <u>Particulates and soot</u> ● <u>Solar Activity</u> <div style="text-align: right; margin-right: 50px;">  </div> <p align="center">Observed and expected environmental effects</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 25%;">Natural systems</td> <td style="width: 25%;">Ecological systems</td> <td style="width: 25%;">Long-term effects</td> <td style="width: 25%;">Large-scale and abrupt impacts</td> </tr> </table> <p align="center"><u>For more details</u></p> <p>Note the following points while generating the web page.</p> <ul style="list-style-type: none"> ● Title of page is “Global Warming” ● Link color in green ● Font style for the page is arial ● Heading of the page is blue ● Image used is warming.png ● Table border is 2px and border color is red ● Use links as: <ul style="list-style-type: none"> ● For greenhouse gases as one.html ● For Particulates and soot as two.html ● For Solar Activity as three.html ● Email id for bottom message is abc@xyz.com 	Natural systems	Ecological systems	Long-term effects	Large-scale and abrupt impacts	
Natural systems	Ecological systems	Long-term effects	Large-scale and abrupt impacts				
	Ans.	<pre><html> <title>Global Warming</title> <body link=green > <h1 ALIGN="center"> GLOBAL WARMING</h1>
</pre>					

	<pre> Global warming is the observed century-scale rise in the average temperature of Earth's climate system.
 Since the early 20th century, the global air and sea surface temperature has increased about 0.8<sup>0</sup> C (1.4 <sup>0</sup> F), with about two-thirds of the increase occurring since 1980. Initial causes of temperature changes: Greenhouse gases Particulates and soot Solar Activity <center>Observed and expected environmental effects <table border=2 bordercolor="Red"> <tr> <td valign=middle>Natural systems</td> <td valign=middle>Ecological systems</td> <td valign=middle>Long term affects</td> <td valign=middle>Large scale andabrupt impacts</td> </tr> </table>
 For more details </center> </body> </html> </pre> <p><i>(1 Mark for Title of page as "Global Warming")</i> <i>(1 Mark for Link color as green)</i> <i>(1 Mark for Font style for the page as arial)</i> <i>(1 Mark for Heading of the page as blue)</i> <i>(1 Mark for Image used as warming.png)</i> <i>(1 Mark for the correct Table Structure including <TR> and <TD> Tags)</i> <i>(½ Mark for the Table border as 2px)</i> <i>(½ Mark for table border color as red)</i> <i>(½ Mark for greenhouse gases linked to one.html)</i> <i>(½ Mark for Particulates and soot linked to two.html)</i> <i>(½ Mark for Solar Activity linked to three.html)</i> <i>(1 Mark for linking Email id for bottom message to abc@xyz.com)</i> <i>(½ Mark for complete HTML code)</i></p>													
(b)	<p>i) Write two points of difference between HTML and XML. 2</p> <p>ii) Write three advantages of using XML document. 3</p> <p>iii) Write the code to create an XML document to present the following data: 5</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Class</th> <th>English Marks</th> <th>Maths Marks</th> </tr> </thead> <tbody> <tr> <td>Raghav</td> <td>10</td> <td>75</td> <td>95</td> </tr> <tr> <td>Ritvik</td> <td>10</td> <td>85</td> <td>92</td> </tr> </tbody> </table>	Name	Class	English Marks	Maths Marks	Raghav	10	75	95	Ritvik	10	85	92	
Name	Class	English Marks	Maths Marks											
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Ritvik	10	85	92											

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	Ans.	<p>i) HTML document formats and displays web pages. XML documents carry data along with their description.</p> <p>HTML Tags are predefined. XML tags are not predefined.</p> <p>HTML tags are not case sensitive. XML tags are case sensitive.</p> <p>OR Any other correct difference</p> <p>(1 Mark for each of 2 differences)</p>	
		<p>ii) XML is an eXtensible language. It is platform independent. XML can be used to create new languages.</p> <p>OR Any other correct advantage</p> <p>(1 Mark for each advantage)</p>	
		<p>iii)</p> <pre> <MarksList> <Student> <Name>Raghav</Name> <Class>10</Class> <English_Marks>75<English_Marks> <Maths_Marks>95</Maths_Marks> </Student> <Student> <Name>Ritvik</Name> <Class>10</Class> <English_Marks>85<English_Marks> <Maths_Marks>92</Maths_Marks> </Student> </MarksList> </pre> <p>(1 Mark for root element) (1 Mark for appropriate use of student or its equivalent element) (½ Mark each for appropriate use of Name, Class, English_Marks and Maths_Marks elements) (1 Mark for proper nesting of all elements)</p>	
SECTION B			
Q6.		<p>Multiple choice questions (Choose the most appropriate option): (1 Mark for each correct answer)</p>	18
	i)	<p>If we want an image to be the hyperlink, the correct syntax is:</p> <p>a) <img src = image.gif click</p> <p>b) click</p> <p>c) click</p> <p>d) </p>	
	Ans:	b) click	

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	ii) Which attribute tells us how many rows a cell should span? a) Colspan=n b) Rowspan=n c) Both (a) & (b) d) None of the above	
Ans.	b) Rowspan=n	
	iii) To create a link, we must use _____ attribute with <A> tag. a) name b) link c) tag d) href	
Ans.	d) href	
	iv) To start a list with no.3, we should write a) <OL start=3> b) <OL type=3> c) OL value=3> d) All of the above	
Ans.	a) <OL start=3>	
	v) For internal linking the section names are provided by _____ attribute. a) href b) title c) name d) target	
Ans.	c) name	
	vi) Which of the following is an attribute of <table> tag? a) src b) link c) cellpadding d) bold	
Ans.	c) cellpadding	

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	vii)	<p>Is this a well formed XML document?</p> <pre><?xml version = "1.0"?> <Note> <to age="29"> Tove </to> <from>John</from></pre> <p>a) Yes b) No c) Can't say d) None of the above</p>	
	Ans.	b) No	
	viii)	<p>Comments in XML document is given by</p> <p>a) <?–comment__> b) <!__comment__!> c) <!__comment__> d) None of the above</p>	
	Ans.	c) <!__comment__>	
	ix)	<p>The use of DTD in XML development is</p> <p>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 template to be filled in when generating an XML document automatically</p>	
	Ans.	a) Required when validating XML documents	
	x)	<p>Valid XML documents means</p> <p>a) The document has root elements b) The document contents at least one or more root elements c) The XML document has DTD associated with it and it compiles with that DTD d) Each element must nest inside any enclosing element properly.</p>	
	Ans.	c) The XML document has DTD associated with it and it compiles with that DTD	
	xi)	<p>Container elements in HTML require</p> <p>a) Starting tag b) Ending tag c) Starting and ending tag d) None of these</p>	
	Ans.	c) Starting and ending tag	

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	xii)	Which HTML tag cause browsers to render text as italics. a) <text style="italics"></text> b) <ita.></ital.> c) <i></i> d) 	
	Ans.	c) <i></i>	
	xiii)	if the image you are loading in the web page is not available, then you want a text to appear in the image place holder. Which attribute lets you define this text? a) Src b) Align c) Text d) Alt	
	Ans.	d) Alt	
	xiv)	Copy of data that can be used to restore and recover data is a) The copied data b) Backup c) Restoration data d) None of these	
	Ans.	b) Backup	
	xv)	A program designed to replicate and eat up a computer's storage is called a) Virus b) Spam c) Worm d) Mail	
	Ans.	c) Worm OR a) Virus	
	xvi)	A digital document issued to a site by a certification authority of internet. a) E-code b) Digital certificate c) Digital signature d) Digital id	
	Ans.	b) Digital certificate	

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	xvii)	To avoid problems while working with internet you should follow this precaution a) Install antivirus on your computer b) Take the backup of your files regularly c) Do not click on unknown links d) All of the above	
	Ans.	d) All of the above	
	xviii)	Which attributes is not valid for <body> tag? a) background b) color c) vlink d) leftmargin	
	Ans.	b) color	