

**Strictly Confidential: (For Internal and Restricted use only)**  
**Secondary School Examination**  
**March 2019**

**Marking Scheme - Foundation of Information Technology (SUBJECT CODE 165)**  
**(PAPER CODE - 53/1)**

**General Instructions:**

1. You are aware that evaluation is the most important process in the actual and correct assessment of the candidates. A small mistake in evaluation may lead to serious problems which may affect the future of the candidates, education system and the teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully. **Evaluation is a 10 -12 days mission for all of us. Hence, it is necessary that you put in your best efforts in this process.**
2. Evaluation is to be done as per instructions provided in the Marking Scheme. It should not be done according to one's own interpretation or any other consideration. Marking Scheme should be strictly adhered to and religiously followed. **However, while evaluating, answers which are based on the latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and marks be awarded to them.**
3. The Head-Examiner must go through the first five answer books evaluated by each evaluator on the first day, to ensure that evaluation has been carried out as per the instructions given in the Marking Scheme. The remaining answer books meant for evaluation shall be given only after ensuring that there is no significant variation in the marking of individual evaluators.
4. If a question has parts, please award marks on the right-hand side for each part. Marks awarded for different parts of the question should then be totaled up and written in the left-hand margin and encircled.
5. If a question does not have any parts, marks must be awarded in the left hand margin and encircled.
6. If a student has attempted an extra question, answer of the question deserving more marks should be retained and the other answer scored out.
7. No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
8. A full scale of marks **1-40** has to be used. Please do not hesitate to award full marks if the answer deserves it.
9. Every examiner has to necessarily do evaluation work for full working hours i.e. 8 hours every day and evaluate 25 answer books per day.
10. Ensure that you do not make the following common types of errors committed by the Examiner in the past:-
  - a. Leaving the answer or part thereof unassessed in an answer book.
  - b. Giving more marks for an answer than assigned to it.
  - c. Wrong transfer of marks from the inside pages of the answer book to the title page.
  - d. Wrong question wise totaling on the title page.
  - e. Wrong totaling of marks of the two columns on the title page.
  - f. Wrong grand total.
  - g. Marks in words and figures not tallying.
  - h. Wrong transfer of marks from the answer book to online award list.
  - i. Answers marked as correct, but marks not awarded. (Ensure that the right tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answer.)
  - j. Half or a part of answer marked correct and the rest as wrong, but no marks awarded.
11. While evaluating the answer books if the answer is found to be totally incorrect, it should be marked as (X) and awarded zero (0) Marks.
12. Any unassessed portion, non-carrying over of marks to the title page, or totaling error detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also of the Board. Hence, in order to uphold the prestige of all concerned, it is again reiterated that the instructions be followed meticulously and judiciously.
13. The Examiners should acquaint themselves with the guidelines given in the Guidelines for spot Evaluation before starting the actual evaluation.

14. Every Examiner shall also ensure that all the answers are evaluated, marks carried over to the title page, correctly totaled and written in figures and words.
15. The Board permits candidates to obtain a photocopy of the Answer Book on request in an RTI application and also separately as a part of the re-evaluation process on payment of the processing charges.

**Specific Instructions:**

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

**FOUNDATION OF INFORMATION TECHNOLOGY**

<b>SECTION A</b>			
<b>Q1.</b>		<b>Multiple Choice Questions:</b>	<b>5</b>
	(a)	MAILTO and HREF are the attributes of _____ tag: (i) <MAIL> (ii) <A> (iii) <IMAGE> (iv) <TABLE>	1
	<b>Ans</b>	<b>(ii) &lt;A&gt;</b>	
		<b><i>(1 Mark for writing correct answer)</i></b>	
	(b)	HTML tag to convert a regular text into heading: (i) H1....H6 (ii) <HEADING> (iii) <HEAD> (iv) <TITLE>	1
	<b>Ans</b>	<b>(i) H1....H6</b>	
		<b><i>(1 Mark for writing correct answer)</i></b>	
	(c)	Which of the following is a Web Browser: (i) Java Script (ii) HTML (iii) Facebook (iv) Google Chrome	1
	<b>Ans</b>	<b>(iv) Google Chrome</b>	
		<b><i>(1 Mark for writing correct answer)</i></b>	
	(d)	Which of the following is true about XML (i) Its full form is Extensible Management Language (ii) New tags cannot be defined in XML as per the requirement (iii) XML is used for data formatting (iv) There can be only one root element in XML document	1
	<b>Ans</b>	<b>(iv) There can be only one root element in XML document</b>	
		<b><i>(1 Mark for writing correct answer)</i></b>	
	(e)	T is FTP stands for: (i) TABLE (ii) TRANSACTION (iii) TRANSFER (iv) TOTAL	1
	<b>Ans</b>	<b>iii) TRANSFER</b>	
		<b><i>(1 Mark for writing correct answer)</i></b>	
<b>2</b>		Mention any two attributes of <BODY> tag	1
	<b>Ans</b>	<b>Any two from the following: alink</b>	

		background bgcolor link text vlink							
		<i>(½ Mark for writing first correct attribute name)</i> <i>(½ Mark for writing second correct attribute name)</i>							
3		Write the URL of any one e-Banking website	1						
	Ans	www.onlinesbi.com www.icicibank.com www.online.citibank.co.in OR Any other e-Banking website URL  NOTE: any URL with a mnemonic for any banking website should be accepted the URL preceded with http:// or https:// or www should be accepted							
		<i>(1 Mark for writing correct answer)</i>							
4		What is the full form of HTTP?	1						
	Ans	HyperText Transfer Protocol							
		<i>(1 Mark for writing correct answer)</i>							
5		Vinay has just started learning about the basics of Internet. Which software/application he should use to open any website?	1						
	Ans	Web Browser OR Name of any correct Web Browser viz. Chrome, Firefox, Opera, Internet Explorer etc.							
		<i>(1 Mark for writing correct answer)</i>							
6		What is Web Address?	1						
	Ans	An internet address of a website							
		<i>(1 Mark for writing correct answer)</i>							
		<b>SECTION 'B'</b>							
7		Differentiate between Trojans and email Spamming.	2						
	Ans	Trojans - it is a malicious software designed to spy on victims computer and gain access to user's system to extract data. Email-Spamming - It refers to any unsolicited, unwanted email by an identified or unidentified source.							
		<i>(1 mark for explaining Trojans)</i> <i>(1 mark for explaining e-mail spamming)</i>							
8		Briefly explain the significance of Social networking through Internet in our day to day life.	2						
	Ans.	<i>Social networking sites help us to connect to the people and get updated.</i> <i>It reduces geographical distances.</i> <i>Makes communication faster and cheaper means of communication.</i>							
		<i>(2 marks for explaining the significance of Social Networking)</i>							
9		Priyamvada has just started learning HTML. She has made a list of few HTML tags which she will be using in creating a web page but my mistake she has mentioned wrong attributes in front of the tags. Help her in selecting correct attributes from ' Column B' for the tags given in "Column A".	2						
		<table border="1"> <thead> <tr> <th>Column A (TAGS)</th> <th>Column B (ATTRIBUTES)</th> </tr> </thead> <tbody> <tr> <td>BODY</td> <td>MAILTO</td> </tr> <tr> <td>IMG</td> <td>VLINK</td> </tr> </tbody> </table>	Column A (TAGS)	Column B (ATTRIBUTES)	BODY	MAILTO	IMG	VLINK	
Column A (TAGS)	Column B (ATTRIBUTES)								
BODY	MAILTO								
IMG	VLINK								

		OL	HEIGHT										
		A	TYPE										
	Ans.	<b>BODY - VLINK</b> <b>IMG - HEIGHT</b> <b>UL - TYPE</b> <b>A - MAILTO</b>											
		<i>(½ mark for each correct answer)</i>											
		<b>Or</b>											
		Mention any two attributes of <IMG>tag along with their significance.		2									
	Ans.	<b>Any two from the following:</b> SRC-It is used to give the location of the image. Align- It is used to set the position of the image. BORDER- it is used to provide a border around the image. HEIGHT- it is used to specify the height of the image. WIDTH - It is used to specify the width of the image. ALT - It is used to provide alternate text to the image. HSPACE- It is used to provide horizontal space to the image. VSPACE-It is used to provide vertical space to the image.											
		<i>(½ mark for correct attribute)</i>											
		<i>(½ for correct significance of any two attributes)</i>											
10		Discuss the significance of DataTypes while creating a database. Mention the name of any two commonly used data types while creating a database.		2									
	Ans.	Datatypes define the type of values that a column/field can hold. Data Types- (Any two of the following) <ul style="list-style-type: none"> <li>• Number</li> <li>• Text</li> <li>• Date &amp; Time</li> <li>• AutoNumber</li> <li>• Currency</li> <li>• Memo</li> <li>• Yes/No</li> <li>• Attachment</li> <li>• OLE object</li> <li>• Hyperlink</li> <li>• Lookup Wizard</li> <li>• Calculated</li> </ul>											
		<i>(1 mark for writing significance of Data Types)</i>											
		<i>(½ mark each for writing any two correct data types)</i>											
		<b>OR</b>											
		Tapan, a beginner in database designing has to design a database of customers of a mobile company. Suggest him any four suitable field names for the same.		2									
	Ans.	<b>Customer Id, Customer Name, ADDRESS, MODEL, PERSONAL ID, MOBILE NO, PHOTO etc.</b>											
		<i>(½ mark each for any four valid field names)</i>											
11		Ms. Vani, Head Girl of the school, has to display sequence of events of upcoming school's Annual Day function on the school website. help her in writing HTML code to create a table in HTML, as shown in the given screenshot.		3									
		<table border="1"> <thead> <tr> <th align="center" colspan="3">ANNUAL SPORTS DAY - SEQUENCE OF EVENTS</th> </tr> </thead> <tbody> <tr> <td align="center">8:00 AM - 9:00 AM</td> <td align="center">9:00 AM - 1:00 PM</td> <td align="center">1:00 PM - 2:00 PM</td> </tr> <tr> <td align="center">OPENING CEREMONY</td> <td align="center">PRIZE DISTRIBUTION</td> <td align="center">CULTURAL EVENTS</td> </tr> </tbody> </table>			ANNUAL SPORTS DAY - SEQUENCE OF EVENTS			8:00 AM - 9:00 AM	9:00 AM - 1:00 PM	1:00 PM - 2:00 PM	OPENING CEREMONY	PRIZE DISTRIBUTION	CULTURAL EVENTS
ANNUAL SPORTS DAY - SEQUENCE OF EVENTS													
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OPENING CEREMONY	PRIZE DISTRIBUTION	CULTURAL EVENTS											

	Ans.	<pre>&lt;HTML&gt; &lt;BODY&gt;&lt;TABLE BORDER = "2" &gt; &lt;TR&gt;   &lt;TH COLSPAN= "3" &gt; ANNUAL DAY FUNCTION - SEQUENCE OF EVENTS&lt;/TH&gt; &lt;/TR&gt;   &lt;TR ALIGN="LEFT"&gt; &lt;TD&gt; 8:00 AM - 9 : 00 AM&lt;/TD&gt;     &lt;TD&gt; 9 : 00 AM - 1 : 00 PM&lt;/TD&gt;     &lt;TD&gt; 1 : 00 PM - 2 : 00 PM&lt;/TD&gt;   &lt;/TR&gt; &lt;TR ALIGN="LEFT"&gt; &lt;TD&gt; OPENING CEREMONY&lt;/TD&gt; &lt;TD&gt;PRIZE DISTRIBUTION&lt;/TD&gt; &lt;TD&gt;CULTURAL EVENTS&lt;/TD&gt;&lt;/TR&gt; &lt;/TABLE&gt; &lt;/BODY&gt; &lt;/HTML&gt;</pre>	
		<p><i>(½ mark for table tag and ½ mark for border)</i>  <i>(½ mark for colspan with TH/TD tag)</i>  <i>(½ mark for TR)</i>  <i>(½ mark for TD)</i>  <i>(½ mark for properly closing all tags)</i></p> <p><b>Note: Only ½ Mark to be given if &lt;HTML&gt; or &lt;BODY&gt; is used correctly.</b></p>	
12		Differentiate between Web sites and Web pages with suitable example of each.	3
	Ans.	<p>Website is a collection of web pages with different types of information on a subject.  Web page is a part of the website.</p> <p>Examples:  Website: www.cbse.nic.in                      Webpage: www.cbse.nic.in/index.html  School Website                              Homepage  A book    A page of the book</p> <p><b>(1 mark for correct difference)</b>  <b>(1 mark each for correct example of website and webpage)</b></p>	
13		<p>Shahnawaz has to create following list through HTML as a part of his social science project. Help him in writing HTML code for the same.</p> <p>AFRICAN COUNTRIES AND THEIR CAPITALS</p> <ol style="list-style-type: none"> <li>1. EGYPT <ul style="list-style-type: none"> <li>○ Cairo</li> </ul> </li> <li>2. ETHIOPIA <ul style="list-style-type: none"> <li>○ Addis Ababa</li> </ul> </li> <li>3. KENYA <ul style="list-style-type: none"> <li>○ Nairobi</li> </ul> </li> </ol>	3
	Ans	<pre>&lt;HTML&gt; &lt;BODY&gt;AFRICAN COUNTRIES AND THEIR CAPITALS&lt;BR&gt; &lt;OL&gt;   &lt;LI&gt; EGYPT     &lt;UL TYPE="circle"&gt;       &lt;LI&gt; Cairo     &lt;/UL&gt;   &lt;LI&gt;ETHIOPIA</pre>	

		<pre> &lt;UL TYPE = "circle"&gt;   &lt;LI&gt;Addis Ababa &lt;/UL&gt; &lt;LI&gt;KENYA   &lt;UL TYPE="circle"&gt;     &lt;LI&gt; Nairobi   &lt;/UL&gt; &lt;/OL&gt; &lt;/BODY&gt; &lt;/HTML&gt; </pre>	
		<p><i>(1 mark for proper usage of OL tag with LI)</i>  <i>(1 mark for proper usage of UL tag with type → attribute)</i>  <i>(1 mark for HTML structure with BODY and the heading)</i></p>	
14		Explain Virus and Anti-Virus software briefly. Also give the name of any two popular anti-virus software.	3
	Ans	<p>A virus is an unauthentic software program which is prone to infect a computer system. This malicious software constantly replicates itself in order to impact the system performance.</p> <p>An antivirus is basically a software program which search, prevent, detect and remove viruses.</p> <p>Two popular antivirus softwares are: (Any two only)          Bitdefender, McAfee, Kaspersky, AVG Antivirus, Avira, Avast, Qickheal etc.</p>	
		<p><i>(1 mark for explaining Virus software)</i>  <i>(1 mark for explaining Antivirus software)</i>  <i>(½ mark each for writing names of any two correct antivirus softwares)</i></p>	
		OR	3
		Discuss the role of data backup and recovery tools and methods in modern day computing. Suggest one-one way each for both online as well as offline backup.	
	Ans	<p>Backup and recovery tools help us to <b>back up</b> data so that in case of a data loss we can recover back the lost data.</p> <p>We can backup data using</p> <ul style="list-style-type: none"> <li>● Magnetic tapes</li> <li>● Hard disks</li> </ul> <p><b>Online backup</b> means to <b>back up</b> data from your hard drive to a remote server or computer using a network connection. Some commonly used online backup tools are Google Drive, IDrive, Dropbox etc. (Any one)</p> <p><b>Offline backup</b> is when you make a simple copy of the data and log files. For this to work, the database should be taken offline first. This is the opposite to the <b>Online backup</b> where backup is done while the database is in use.</p>	
		<p><i>(1 mark for writing role of data backup and recovery tools/methods)</i>  <i>(1 mark for suggesting one way of Online backup)</i>  <i>(1 mark for suggesting one way of Offline backup)</i></p>	
15		Draw the XML tree for the code given below. Also identify and name the root element and one child element.	5
		<pre> &lt;PRODUCT&gt; &lt;STATIONERY&gt; &lt;PEN&gt; &lt;Brand&gt;Fine Nib&lt;/Brand&gt; &lt;Type&gt;Gel&lt;/Type&gt; &lt;/PEN&gt; &lt;COPY&gt; &lt;Brand&gt;Clear Write&lt;/Brand&gt; </pre>	

	<p>&lt;Type&gt;Spiral Notebook&lt;/Type&gt; &lt;/COPY&gt; &lt;/STATIONERY&gt; &lt;/PRODUCT&gt;</p>	
<p>Ans.</p>	<div style="text-align: center;"> <pre> graph TD     PRODUCT[PRODUCT] --&gt; STATIONARY[STATIONARY]     STATIONARY --&gt; PEN[PEN]     STATIONARY --&gt; COPY[COPY]     PEN --&gt; Brand1[Brand OR Fine Nib]     PEN --&gt; Type1[Type OR Gel]     COPY --&gt; Brand2[Brand OR Clear Write]     COPY --&gt; Type2[Type OR Spiral Notebook]         </pre> <p>Root Element: PRODUCT Child Element: STATIONARY / PEN / Brand / Type / COPY /Brand / Type</p> </div>	
	<p><i>(½ Mark for drawing PRODUCT as root)</i> <i>(½ Mark for drawing STATIONARY under PRODUCT)</i> <i>(½ Mark for drawing PEN under STATIONARY)</i> <i>(½ Mark for drawing COPY under STATIONARY)</i> <i>(½ Mark for drawing Brand under PEN)</i> <i>(½ Mark for drawing Type under PEN)</i> <i>(½ Mark for drawing Brand under COPY)</i> <i>(½ Mark for drawing Type under COPY)</i></p> <p><i>(½ Mark for writing the name of Root element as PRODUCT)</i> <i>(½ Mark for writing the name of Child element as any one of STATIONARY / PEN / Brand / Type / COPY /Brand / Type)</i></p>	
<p>16</p>	<p>Attempt any one question out of given two:</p> <p>Sharda, a beginner in web page designing, is supposed to design a web page to promote yoga among students as shown below:</p> <div style="text-align: center;"> </div> <p>Write the HTML code to design the above shown web page considering the specifications as given below:</p> <p>(a) Background color of the page should be yellow and all the hyperlinked text should be red in colour.</p> <p>(b) Image named yoga.jpg should be placed in the center of the webpage.</p>	<p>5</p>

		<p>(c) Heading “The best way to health and fitness!” should be first level of the heading and underlined.</p> <p>(d) Paragraph should have following formatting styles applicable.          Colour-Blue          Size-5          Font style-Times New Roman</p> <p>(e) At the bottom of the page, “Contact Us” text should be linked with <a href="mailto:admin@yoga.com">admin@yoga.com</a> email id.</p>	
	Ans	<pre>&lt;HTML&gt; &lt;BODY BGCOLOR="YELLOW" LINK="RED"&gt; &lt;CENTER&gt;&lt;IMG SRC="yoga.jpg"&gt; &lt;BR&gt; &lt;H1&gt; &lt;U&gt; The best way to health and fitness &lt;/U&gt;&lt;/H1&gt;&lt;/CENTER&gt; &lt;P&gt;&lt;FONT COLOR="BLUE" SIZE="5" FACE="TIMES NEW ROMAN"&gt; Yoga is a discipline and meditation which needs to be practiced physically, mentally, and spiritually. It was originated in ancient India. It positively affect you both physically and mentally and creates perfect harmony among your mind, body and soul.&lt;/FONT&gt; &lt;/P&gt; &lt;BR&gt; &lt;A HREF="mailto:admin@yoga.com"&gt;Contact Us &lt;/A&gt; &lt;/BODY&gt; &lt;/HTML&gt;</pre>	
		<p><i>(½ mark for bgcolor attribute of &lt;body&gt; )</i>  <i>(½ mark for link attribute of &lt;body&gt;)</i>  <i>(½ mark for &lt;img&gt; → src)</i>  <i>(½ mark for writing &lt;center&gt; or attribute align = ‘middle’ in &lt;img&gt;)</i>  <i>(½ mark for &lt;H1&gt; tag)</i>  <i>(½ mark for &lt;U&gt; tag)</i>  <i>(½ mark for &lt;font&gt; tag with size OR text color)</i>  <i>(½ mark for &lt;font&gt; tag with text style/face )</i>  <i>(½ mark for proper usage of &lt;A&gt; tag )</i>  <i>(½ mark for &lt;html&gt; structure )</i></p>	
		OR	
		Differentiate between <SUP> ...</SUP> and <SUB>.....</SUB>tags with suitable example of each.	
	Ans	<p>The &lt;sup&gt; tag defines superscript text. Superscript text appears half a character above the normal line, and is displayed in a smaller font.  <b>Example:</b>          a &lt;sup&gt; 2 &lt;/sup&gt; + b &lt;sup&gt; 2 &lt;/sup&gt;          will be displayed as a<sup>2</sup> + b<sup>2</sup></p> <p>The &lt;sub&gt; tag defines subscript text. Subscript text appears half a character below the normal line, and is displayed in a smaller font.  <b>Example:</b>          H &lt;sub&gt; 2 &lt;/sub&gt; + O          will be displayed as H<sub>2</sub>O</p>	5
		<p><i>(1 mark for explaining use of &lt;sup&gt; tag)</i>  <i>(1 mark for writing example using a code with &lt;sup&gt; tag)</i>  <i>(½ mark for writing the output for the given example using &lt;sup&gt; tag)</i>  <i>(1 mark for explaining use of &lt;sub&gt; tag)</i>  <i>(1 mark for writing example using a code with &lt;sub&gt; tag)</i>  <i>(½ mark for writing the output for the given example using &lt;sub&gt; tag)</i></p>	