

CBSE Class 10 Computer Application Answer Key 2022 (May 23)

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Secondary School Term II Examination, 2022

Marking Scheme - COMPUTER APPLICATIONS (SUBJECT CODE - 165)

(PAPER CODE - 53)

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 teaching profession. To avoid mistakes, it is requested that before starting evaluation, you must read and understand the spot evaluation guidelines carefully.
2. **“Evaluation policy is a confidential policy as it is related to the confidentiality of the examinations conducted, Evaluation done and several other aspects. Its’ leakage to the public in any manner could lead to derailment of the examination system and affect the life and future of millions of candidates. Sharing this policy/document to anyone, publishing in any magazine and printing in News Paper/Website etc may invite action under IPC.”**
3. 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 latest information or knowledge and/or are innovative, they may be assessed for their correctness otherwise and marks be awarded to them. In class-X, while evaluating two competency based questions, please try to understand the given answer and even if the reply is not from the marking scheme but correct competency is enumerated by the candidate, marks should be awarded.**
4. 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.
5. Evaluators will mark (✓) wherever the answer is correct. For wrong answer ‘X’ be marked. Evaluators will not put the right kind of mark while evaluating which gives an impression that the answer is correct and no marks are awarded. **This is the most common mistake which evaluators are committing.**
6. 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 totalled up and written in the left-hand margin and encircled. This may be followed strictly.
7. If a question does not have any parts, marks must be awarded in the left-hand margin and encircled. This may also be followed strictly.
8. If a student has attempted an extra question, the answer of the question deserving more marks should be retained and the other answer scored out.
9. No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
10. A full scale of marks **25** (example 0-25 marks as given in Question Paper) has to be used. Please do not hesitate to award full marks if the answer deserves it.
11. Every examiner has to necessarily do evaluation work for full working hours i.e. 8 hours every day and evaluate 30 answer books per day in main subjects and 35 answer books per day in other subjects (Details are given in Spot Guidelines). This is in view of the reduced syllabus and number of questions in the question paper.
12. Ensure that you do not make the following common types of errors committed by the Examiner in the past :-
 - Leaving the answer or part thereof unassessed in an answer book.

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- Giving more marks for an answer than assigned to it.
 - Wrong totaling of marks awarded on a reply.
 - Wrong transfer of marks from the inside pages of the answer book to the title page.
 - Wrong question wise totaling on the title page.
 - Wrong totaling of marks of the two columns on the title page.
 - Wrong grand total.
 - Marks in words and figures not tallying.
 - Wrong transfer of marks from the answer book to online award list.
 - 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 answers.)
 - Half or a part of the answer marked correct and the rest as wrong, but no marks awarded.
13. While evaluating the answer books if the answer is found to be totally incorrect, it should be marked as cross (X) and awarded zero (0) Marks.
14. 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.
15. The Examiners should acquaint themselves with the guidelines given in the Guidelines for spot Evaluation before starting the actual evaluation.
16. 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.
17. 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.

MARKING SCHEME

Secondary School Examination TERM-II, 2022

COMPUTER APPLICATIONS (Subject Code-165)

[Paper Code : 53]

Maximum Marks : 25

General Instructions :

1. The question paper contains **three** sections A, B and C. Each section is **compulsory**.
2. **Section A** has **4** questions of Short Answer Type Questions. Each Question is of 2 marks. Internal choice is provided in 1 question.

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3. **Section B** has 3 questions of Long Answer Type-I (LA-I) Questions. Each question is of 3 marks. Internal choice is provided in 1 question.
4. **Section C** has 2 Long Answer Type-II (LA-II) Questions. Each question is of 4 marks.

Q. No.	EXPECTED ANSWER / VALUE POINTS	Marks
	SECTION–A This section has 4 Short Answer Type Questions. Each question is of 2 marks. Internal choice is provided in 1 question.	8
1.	<p>Gulzar is a talented musician. He is trying to create a web page so as to share his creations with music lovers across the world. He wants to embed audio and video files in the web page with the following specifications :</p> <p>To embed audio files:</p> <ul style="list-style-type: none"> (i) The name of audio file is GulzarNote1.mp3 (ii) The audio should start playing automatically when the page loads. (iii) The audio controls such as Play, Pause and Volume should be visible. <p>To embed video files :</p> <ul style="list-style-type: none"> (i) The name of video file is GulzarMovie1.mp4 (ii) The video should play in a window of width 350 pixels and height 250 pixels. (iii) The video controls such as Play, Pause and Volume should be visible. <p>To complete the task, Gulzar has written the following HTML code:</p> <p>To embed audio :</p> <pre><audio controls autoplay > < source src = "GulzarNote1.mp3"> </audio controls></pre> <p>To embed video :</p> <pre><video width = "350" height = "250"> <source src = "GulzarMovie1.mp4"> </video></pre>	2
	<p>Gulzar is not getting the desired output as the code contains errors. Rewrite the correct statements to help him complete the task. Underline all the corrections made.</p> <p>Ans</p> <p>To embed audio :</p> <pre><audio controls <u>autoplay</u>> <source src = "GulzarNote1.mp3"> <u></audio></u></pre>	

	<p>OR</p> <pre><audio <u>controls="controls"</u> <u>autoplay="autoplay"</u>> <source src = "GulzarNotel.mp3"> </audio></pre> <p>To embed video :</p> <pre><video width = "350" height = "250" <u>controls</u>> <source src = "GulzarMovie1.mp4"> </video></pre> <p>OR</p> <pre><video width = "350" height = "250" <u>controls="controls"</u>> <source src = "GulzarMovie1.mp4"> </video></pre> <p>(1 mark for each correction)</p> <p>OR</p> <p>(Only 1 mark identification of both the error(s) without correction)</p> <p>Ignore the following corrections:</p> <ul style="list-style-type: none"> • <u>controls="controls"</u> <u>autoplay="autoplay"</u> • <u>controls="controls"</u> 	
2.	<p>(a) Differentiate between the terms Web Site and Web Page.</p> <p>Ans :</p> <p>Website : A Web Site is a central location that includes multiple web pages that are maintained by a person or organization and is accessible to anyone, anywhere at any time using a browser from the internet.</p> <p>Webpage : A Web Page is a document or a single page of the Website displayed in a Web browser.</p> <p>(1 mark for writing each correct explanation of Website and Webpage)</p> <p style="text-align: center;">OR</p> <p>(b) What is a Web browser? Write the names of any two commonly used Web Browsers.</p>	2
	<p>Ans:</p> <p>A Web browser is an application used to access and view Websites/Webpages.</p>	

	<p>Common Web browsers include Microsoft Internet Explorer, Google Chrome, Mozilla Firefox, Apple Safari, Netscape Navigator, Chromium, Opera)</p> <p><i>(1 mark for writing correct explanation of Web browser)</i> <i>(½ mark for writing each correct name of a Web browser with maximum marks as 1)</i></p>	
3.	<p>Rohan is creating a Web Page in HTML. He wants to insert a link in his Web page to appear with the text as “Click to Open” which on clicking should open the URL named ‘http://www.Mywebsite.com’ in a new window. Help him to write the HTML code to create the hyperlink.</p> <p>Ans : <code></code> Click to Open <code></code></p> <p><i>(1 mark for writing < a href="http://www.Mywebsite.com" target="_blank">)</i> <i>(½ mark for writing Click to Open)</i> <i>(½ mark for closing with)</i></p>	2
4.	<p>Write any two differences between the Outline and Border-style properties of CSS.</p> <p>Ans : (Any two) :</p> <ul style="list-style-type: none"> • Outlines do not take up space, because they are always placed on top of the box of the element which may cause them to overlap other elements on the page. 	2
	<ul style="list-style-type: none"> • Unlike border-style, outlines won't allow us to set each edge to a different width, or set different colors and styles for each edge. The outline is the same on all sides. • Outlines do not have any impact on surrounding elements apart from overlapping. • Unlike border-style, outlines do not change the size or position of the element. • The CSS border properties allow you to specify the style and color 	

	<p>of an element's border. An outline is a line that is drawn around elements (outside the borders) to make the elements.</p> <p><i>(1 mark for writing each correct difference between outline and border-style)</i></p>	
	<p style="text-align: center;">SECTION–B</p> <ul style="list-style-type: none"> • This section has 3 Long Answer Type-I (LA-I) Questions. • Each question is of 3 marks. Internal choice is provided in 1 question. 	9
5.	<p>Expand the following in the context of Internet Protocols:</p> <p>(a) SMTP (b) POP3</p> <p>Write the difference between SMTP and POP3.</p> <p>Ans :</p> <p>SMTP : Simple Mail Transfer Protocol POP3 : Post Office Protocol version 3</p> <p>SMTP transfers the mail from a sender's computer to the mailbox present on the receiver's mail server.</p> <p>POP3 allows us to retrieve and organize mails from the mailbox on the receiver mail server to the receiver's computer.</p> <p><i>(½ mark for writing each correct expansion of POP3 and SMTP)</i> <i>(1 mark for writing correct explanation of SMTP)</i> <i>(1 mark for writing correct explanation of POP3)</i></p>	3
6.	<p>What is e-Governance? Explain any two merits of e-Governance.</p>	3

	<p>Ans :</p> <p>e-Governance can be defined as the usage of Information and Communication Technology (ICT) by the government to provide and facilitate government services, exchange of information, communication transactions and integration of various standalone systems and services.</p> <p>Merits (Any two) :</p> <ul style="list-style-type: none"> ● Improves delivery and efficiency of government services ● Improved government interactions with business and industry ● Citizen empowerment through access to information ● More efficient government management ● Less corruption in the administration ● Increased transparency in administration ● Greater convenience to citizens and businesses ● Cost reductions and revenue growth ● Increased legitimacy of government ● Flattens organizational structure (less hierarchic) ● Reduces paperwork and red-tapism in the administrative process which results in better planning and coordination between different levels of government ● Improved relations between the public authorities and civil society ● Restructuring of administrative processes 	
	<p><i>(1 mark for writing correct explanation of e-Governance)</i></p> <p><i>(1 mark for writing each correct merit of e-Governance with maximum of 2 Marks)</i></p>	
7.	(a) Differentiate between a Web Address and an Email Address. Write an example of each to illustrate the difference.	3
	<p>Ans :</p> <p>A Web Address is a unique address of a Website.</p> <p>An E-mail Address is the unique address of a recipient or a sender of a mail over a computer network.</p> <p>An E-mail address always contains the 'at sign' @, but a Web address never does.</p> <p>Example : xyz@gmail.com</p>	

	<p>Example : www.google.com</p> <p><i>(1 mark for writing each correct explanation of Web Address and Email Address)</i></p> <p><i>(½ mark for writing each correct example of Web Address and Email Address)</i></p>	
	<p style="text-align: center;">OR</p> <p>(b) Expand the terms SMS and MMS in the context of Mobile Technologies. Differentiate between SMS and MMS in the context of Mobile Technologies.</p> <p>Ans :</p> <p>SMS : Short Message Service</p> <p>MMS : Multimedia Message Service</p> <p>SMS is only capable of sending text from one mobile to another.</p> <p>MMS can send multimedia content – pictures, video and audio in addition to text.</p> <p><i>(½ mark for writing each correct expansion of SMS and MMS)</i></p> <p><i>(1 mark for writing correct explanation of SMS)</i></p> <p><i>(1 mark for writing correct explanation of MMS)</i></p>	
	<p style="text-align: center;">SECTION–C</p> <ul style="list-style-type: none"> ● This section has 2 Long Answer Type-II (LA-II) Questions. ● Each question is of 4 marks. ● Question no. 8 is of case-based type. 	(8 marks)
8.	<p>Read the case study given below and attempt any 4 sub-questions (out of 5). Each sub-question carries 1 mark.</p> <p>Bidya is a nurse in XYZ hospital. Owing to the emergency situation due to COVID-19, she needs to communicate in almost real-time with the Medical Superintendent about the status of the patients. The hospital has provided</p>	

	her a laptop, web camera and other accessories for the communication purposes.	
	<p>(a) As instructed by the Medical Superintendent, Bidya has to send the RT-PCR reports of some patients who have tested negative to their respective family members using her laptop. Which Web service should she avail?</p> <p>Ans: E-mail or Electronic mail (1 mark for writing the correct protocol name)</p>	1
	<p>(b) Bidya wants to establish a connection with the remote computer of the pathology lab in the city, so that she can see the RT-PCR reports of her patients. Which protocol will be used for the same?</p> <p>Ans: SSH/TELNET/PPP (1 mark for writing the correct protocol name)</p>	1
	<p>(c) Bidya has also been instructed by the Medical Superintendent to upload the RT-PCR reports in the Hospital's Data Server. Which Internet protocol shall be used during this process of uploading the reports into the Hospital's Server?</p> <p>Ans: FTP or File Transfer Protocol OR SFTP (1 mark for writing the correct protocol name)</p>	1
	<p>(d) The Medical Superintendent has asked Bidya to inform about the billing and payment details of the admitted patients. Bidya needs to securely access the details from the Hospital's Server using her Admin Login Credentials. Which secured network protocol is she using to access the account details for the patients?</p> <p>Ans : SSH or Secured Shell (1 mark for writing the correct protocol name)</p>	1
	<p>(e) Bidya, during her free time, likes to browse the Internet for products available for Online Shopping. Which Internet protocol does Bidya use while browsing for such products?</p>	1

	<p>Ans : HTTP of HyperText Transfer Protocol or HTTPS (1 mark for writing the correct protocol name) SUBJECT TO MAXIMUM MARKS AS 4 IN QUESTION NO.8</p>															
<p>9.</p>	<p>Write the HTML code to design a Webpage as shown below :</p> <table border="1" data-bbox="426 614 1651 1147"> <thead> <tr> <th>Roll No</th> <th>Name</th> <th>Marks</th> <th>Class Average</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Amit</td> <td>95</td> <td rowspan="3">95.5</td> </tr> <tr> <td>2</td> <td>Angel</td> <td>96</td> </tr> <tr> <td colspan="3">Teacher Mr. Hamid</td> </tr> </tbody> </table> <p>Consider the specifications as given below. Students can write code for any 4 specifications out of the given 5 specifications.</p> <p>Specification-1 : Use CSS to set the following for the entire body :</p> <ul style="list-style-type: none"> • Text color of the entire page as Tomato. • Background color of the entire page as Lightblue. • Font-family as Helvetica. <p>Specification-2 : The value of the table border attribute should be 1. Table header tag should be used wherever required.</p> <p>Specification-3 : The table should exactly contain 4 rows and 4 columns. The data in each cell should be as shown in the above table.</p> <p>Specification-4 : Attribute rowspan should be used wherever required.</p> <p>Specification-5 : Attribute colspan should be used wherever required.</p>	Roll No	Name	Marks	Class Average	1	Amit	95	95.5	2	Angel	96	Teacher Mr. Hamid			<p>4</p>
Roll No	Name	Marks	Class Average													
1	Amit	95	95.5													
2	Angel	96														
Teacher Mr. Hamid																
	<p>Ans :</p> <pre> <html> <head> <style> Body { color : tomato; background-color : lightblue; font-family : helvetica; } </style> </head> </pre>															

	<pre> <body> <table border=1> <tr> <th>Roll No. </th> <th>Name</th> <th>Marks</th> <th>Class Average</th> </tr> <tr> <td>1 </td> <td>Amit </td> <td>95 </td> <td rowspan=3>95.5</td> </tr> <tr> <td>2 </td> <td>Angel </td> <td>96 </td> </tr> <tr> <td colspan=3>Teacher : Mr. Hamid </td> </tr> </table> </body> </html> </pre>	
	<p>(1 mark for writing correct CSS style of body for Specification-1) (1 mark for writing correct HTML code for Specification-2) (1 mark for writing correct HTML code for Specification-3) (1 mark for writing correct HTML code for Specification-4) (1 mark for writing correct HTML code for Specification-5)</p> <p>SUBJECT TO MAXIMUM MARKS AS 4 ONLY IN QUESTION NO.9</p> <p>Note:</p> <ul style="list-style-type: none"> ● Ignore the following ● Use of red color in place of Tomato ● Use of blue color in place of lightblue ● Use of External code for CSS/Internal code for CSS 	