

Roll No.

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Candidates must write the Q.P. Code on the title page of the answer-book.



COMPUTER APPLICATIONS

*Time allowed : 2 hours**Maximum Marks : 50*

NOTE

-
- (I) Please check that this question paper contains **11** printed pages.
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- (II) Please check that this question paper contains **26** questions.
-
- (III) Q.P. Code given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
-
- (IV) **Please write down the serial number of the question in the answer-book before attempting it.**
-
- (V) 15 minute time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.



General Instructions :

Please read the instructions carefully.

- *This question paper has 5 Sections : Sections A, B, C, D, E.*
- *All questions are compulsory. However, an internal choice of approximately 30% is provided.*
- *Section A has 12 questions carrying 1 mark each.*
- *Section B has 7 Very Short Answer (VSA) type questions carrying 2 marks each.*
- *Section C has 4 Short Answer (SA) type questions carrying 3 marks each.*
- *Section D has 1 Long Answer (LA) type question carrying 4 marks.*
- *Section E has 2 Source-based / Case-based / Passage-based questions carrying 4 marks each.*

SECTION A

12×1=12

1. The letter S in the abbreviation HTTPS in context of Networking protocols, stands for :
(A) Single (B) Static
(C) Secure (D) Sensitive
2. Which of the following is **not** a Web Service ?
(A) Using Diksha learning portal
(B) Sending and receiving email
(C) File transfer over Bluetooth
(D) Using a banking portal for online transaction
3. In 3G and 4G mobile technologies, the character 'G' stands for :
(A) Generation (B) GPRS
(C) Grid (D) Google

14-53

2

4. A website or online platform where individuals or groups regularly publish written content, typically in a reverse chronological order is known as :
- (A) News Group (B) Blog
(C) Chat Group (D) Social Networking
5. Which of the following is **not** an attribute of the `` tag ?
- (A) face (B) height
(C) size (D) color
6. In HTML, we start a comment using :
- (A) `<!--`
(B) `!-->`
(C) `--!>`
(D) `<--!`
7. Which of the following elements have both the opening and the closing tags in HTML ?
- (A) `
` (B) `<h1>`
(C) `<hr>` (D) ``
8. The default color of `vlink` is _____ .
- (A) Green (B) Purple
(C) Blue (D) Yellow
9. Which of the following tags is **not** used while creating a description list ?
- (A) `<dt>` (B) `<d1>`
(C) `<td>` (D) `<dd>`



10. Which of the following is **not** an example of an Open Source Software ?

- (A) Linux
- (B) Android
- (C) Photoshop
- (D) OpenOffice

Questions No.11 and 12 are Assertion and Reason type questions. Each question consists of two statements, namely, Assertion (A) and Reason (R). Select the most suitable option considering the Assertion and Reason.

11. *Assertion (A)* : When you enter a query into a search engine, it retrieves and presents a list of web pages, documents, images, videos, or other types of content that are relevant to your search.

Reason (R) : The goal of information retrieval is to effectively and efficiently find and present information that matches the user's search criteria.

- (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is **not** the correct explanation of Assertion (A).
- (C) Assertion (A) is true, but Reason (R) is false.
- (D) Assertion (A) is false, but Reason (R) is true.

12. *Assertion (A)* : It becomes difficult to update and maintain a website's design using CSS.

Reason (R) : CSS allows web developers to separate the presentation layer (styles and layout) from the content layer (HTML).

- (A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A).
- (C) Assertion (A) is true, but Reason (R) is false.
- (D) Assertion (A) is false, but Reason (R) is true.

SECTION B

7×2=14

13. Write any two points of comparison between Chat and Email in context of web services.

14. (a) Write in brief about any two advantages of e-Banking.

OR

(b) Write in brief one advantage and one limitation of e-Reservation.

15. Write any one point of difference between a webpage and a website.

16. (a) Explain in brief about any two factors that are responsible for the Digital Divide.

OR

(b) What are software licenses ? Give one example each of a free software license and a proprietary software.

17. Write any two significances of using links in an HTML webpage.

18. (a) Match the tag with their corresponding correct attribute.

Tag	Attribute
<table>	start
<input>	rowspan
	type
<td>	border

OR

(b) Differentiate between bgcolor and background attributes of <body> tag. Write one HTML statement explaining the use of each attribute.

19. Write suitable html statements to display the following text on a webpage in appropriate subscript and superscript form :

a. H_2O

b. $E = MC^2$

SECTION C

$4 \times 3 = 12$

20. A school wants to create a webpage for the announcement of orientation programme of its Cultural Club as shown below :

ABC International School

Cultural Club

Orientation programme on 15th March 2024

The school wants all the 3 lines to appear as Headings and Subheadings :

- The first line containing its name to have the boldest possible appearance as a heading in Blue color.
- The second line containing the Club name should appear as a heading but its size should be smaller than the first line in green color.
- The third line containing the Programme details should appear as a heading and its size should be smaller than the previous two lines in Cyan color.

Suggest the html code to get the desired appearance of the lines in the webpage.

21. Ayesha has shot some videos. She wants to create a webpage so as to share her creations with her followers across the world. Help Ayesha to embed her video file in the web page with the following specifications :

- The name of video file is Ayes Shahits.mp4.
- The video should play in a window of width 350 pixels and height 250 pixels.
- The video controls such as Play, Pause and Volume should be visible.

22. (a) Online Gadgets is an electronic products company. The company wishes to sell its products online for which they want to launch its website. The homepage of the website should contain the images of its products which are saved as PHONE.JPG and TV.JPG. The company wishes to open the webpage named ALLPHONES.HTML when the image PHONE.JPG is clicked. Similarly, on clicking the image TV.JPG a different webpage named as ALLTVS.HTML should open. Ensure that both the images should get displayed with a width of 200 pixels and a height of 150 pixels.

Write the code to achieve the desired result.

Note : Assume that the image and both the webpages are stored in the same folder.

OR



- (b) Write the HTML code to design the content of the webpage in the form of lists as shown below :

Here is a shopping list with categories and items :

1. Vegetables
 - Carrots
 - Broccoli
 - Spinach
2. Fruits
 - Apples
 - Oranges
 - Bananas

23. Explain the term “Plagiarism”. Write in brief any two examples to illustrate acts of Plagiarism.

SECTION D

4

24. (a) Write the HTML code to design a Student’s Data input form as shown below :

Student Data Input Form

Name :

Subscribe for Newsletter :

Gender :

Male Female Other

Country

▾

The following input elements should be included in the form :

- A textbox to enter student's name.
- A checkbox to allow the student to subscribe to a newsletter.
- Radio buttons to select the gender. The buttons should be grouped with individual values as Male, Female, Other.
- A list box (select dropdown) to choose the country. The available options are USA, Canada, UK and Australia.

OR

- (b) Observe the screenshot of the following content in a webpage and write the HTML code to generate the desired output.

	ACTIVITY	MEMBER NAME	AGE	Email
DETAILS	Chess Club	John Doe	28	john.doe@example.com
	Photography Club	Jane Smith	24	jane.smith@example.com
	Football Club	Michael Johnson	31	michael.johnson@example.com

Note : The table border size should be 1.



SECTION E

Case-Study

2×4=8

25. Suraj is a novice in digital communication. He has recently joined a company where most communications happen over the Internet. On multiple occasions Suraj faces problems while working over the Internet. Help him by answering the following questions :

- (a) Suraj is asked to send an email to his supervisor. He types in the content and provides the email address of the recipient as www.gmail.com. How is the address typed by Suraj different from the email address of the recipient ?
- (b) Suraj has been asked to create a video conferencing link and share the link with all co-workers who are working from home. Suggest any two softwares which he can use for the purpose.
- (c) Suraj has been asked to upload a file containing transaction details and send it to his colleagues in the office. Which Internet protocol will be used by him and by his colleagues in the office to upload and download the file over the Internet ? Write the abbreviation as well as the full form of the protocol to be used.
- (d) Suraj has been asked to use a social networking site to promote sales of the company's products. Suggest him two commonly used social networking sites where he can post about the products and promote the company's sales.



- 26.** Raghu is a painter and blogger. He regularly updates his paintings on his blog. Recently, he saw one of his paintings being used in a presentation by his friend, Nityananda, without acknowledging Raghu as the creator.
- (a) What crime (if any) has been committed by Nityananda ?
 - (b) Raghu appraised Nityananda about IPR and its associated violations. Expand the term IPR.
 - (c) Raghu wants to use e-Commerce to sell his paintings online. Write any two precautions that he should take while using e-Commerce.
 - (d) Mention any two netiquettes which Raghu should follow while being online.

Marking Scheme
Strictly Confidential
(For Internal and Restricted use only)
Secondary School Examination, 2024
SUBJECT NAME COMPUTER APPLICATIONS (Q.P. 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 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 various rules of the Board and 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 due marks be awarded to them. In class-X, while evaluating two competency-based questions, please try to understand given answer and even if reply is not from marking scheme but correct competency is enumerated by the candidate, due marks should be awarded.
4	The Marking scheme carries only suggested value points for the answers These are in the nature of Guidelines only and do not constitute the complete answer. The students can have their own expression and if the expression is correct, the due marks should be awarded accordingly.
5	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. If there is any variation, the same should be zero after deliberation and discussion. 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.
6	Evaluators will mark(✓) wherever answer is correct. For wrong answer CROSS “X” be marked. Evaluators will not put right (✓)while evaluating which gives an impression that answer is correct and no marks are awarded. This is most common mistake which evaluators are committing.
7	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. This may be followed strictly.
8	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.
9	If a student has attempted an extra question, answer of the question deserving more marks should be retained and the other answer scored out with a note “Extra Question” .



10	No marks to be deducted for the cumulative effect of an error. It should be penalized only once.
11	A full scale of marks 50 (example 0 to 80/70/60/50/40/30 marks as given in Question Paper) has to be used. Please do not hesitate to award full marks if the answer deserves it.
12	Every examiner has to necessarily do evaluation work for full working hours i.e., 8 hours every day and evaluate 20 answer books per day in main subjects and 25 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 question paper.
13	<p>Ensure that you do not make the following common types of errors committed by the Examiner in the past:-</p> <ul style="list-style-type: none"> • Leaving answer or part thereof unassessed in an answer book. • Giving more marks for an answer than assigned to it. • Wrong totaling of marks awarded on an answer. • 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/not same. • Wrong transfer of marks from the answer book to online award list. • Answers marked as correct, but marks not awarded. (Ensure that the right <input checked="" type="checkbox"/> tick mark is correctly and clearly indicated. It should merely be a line. Same is with the X for incorrect answer.) • Half or a part of answer marked correct and the rest as wrong, but no marks awarded.
14	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.
15	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.
16	The Examiners should acquaint themselves with the guidelines given in the “ Guidelines for Spot Evaluation ” before starting the actual evaluation.
17	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.
18	The candidates are entitled to obtain photocopy of the Answer Book on request on payment of the prescribed processing fee. All Examiners/Additional Head Examiners/Head Examiners are once again reminded that they must ensure that evaluation is carried out strictly as per value points for each answer as given in the Marking Scheme.



MARKING SCHEME COMPUTER APPLICATIONS

Max. Marks: 50

General Instructions :**Please read the instructions carefully.**

- This question paper has 5 Sections: A, B, C, D, E.
- All questions are compulsory. However, an internal choice of approximately 30% is provided.
- Section A has 12 questions carrying 1 mark each.
- Section B has 7 Very Short Answer (VSA) type questions carrying 2 marks each.
- Section C has 4 Short Answer (SA) type questions carrying 3 marks each.
- Section D has 1 Long Answer (LA) type question carrying 4 marks.
- Section E has 2 Source-based/Case-based/Passage-based questions carrying 4 marks each.

SECTION A

12x1=12

1.	The letter S in the abbreviation HTTPS in context of Networking protocols, stands for:			
	(A)	Single	(B)	Static
	(C)	Secure	(D)	Sensitive
Ans	(C)	Secure		
		<i>(1 mark for writing the correct option)</i>		
2.	Which of the following is <i>not</i> a Web Service ?			
	(A)	Using Diksha learning portal	(B)	Sending and receiving email
	(C)	File transfer over Bluetooth	(D)	Using a banking portal for online transaction
Ans	(C)	File transfer over Bluetooth		
		<i>(1 mark for writing the correct option)</i>		
3.	In 3G and 4G mobile technologies, the character 'G' stands for :			
	(A)	Generation	(B)	GPRS
	(C)	Grid	(D)	Google
Ans	(A)	Generation		
		<i>(1 mark for writing the correct option)</i>		
4.	A website or online platform where individuals or groups regularly publish written content, typically in a reverse chronological order is known as :			

	(A)	News Group	(B)	Blog
	(C)	Chat Group	(D)	Social Networking
Ans	(B)	Blog		
		<i>(1 mark for writing the correct option)</i>		
5.	Which of the following is <i>not</i> an attribute of the <code></code> tag ?			
	(A)	face	(B)	height
	(C)	size	(D)	color
Ans	(B)	height		
		<i>(1 mark for writing the correct option)</i>		
6.	In HTML, we start a comment using :			
	(A)	<code><!--</code>	(B)	<code>!--></code>
	(C)	<code>--!></code>	(D)	<code><--!</code>
Ans	(A)	<code><!--</code>		
		<i>(1 mark for writing the correct option)</i>		
7.	Which of the following elements have both the opening and closing tags in HTML?			
	(A)	<code>
</code>	(B)	<code><h1></code>
	(C)	<code><hr></code>	(D)	<code></code>
Ans	(B)	<code><h1></code>		
		<i>(1 mark for writing the correct option)</i>		
8.	The default color of <code>vlink</code> is _____.			
	(A)	Green	(B)	Purple
	(C)	Blue	(D)	Yellow
Ans	(B)	Purple		
		<i>(1 mark for writing the correct option)</i>		
9.	Which of the following tags is <i>not</i> used while creating a description list ?			
	(A)	<code><dt></code>	(B)	<code><d1></code>
	(C)	<code><td></code>	(D)	<code><dd></code>
Ans	(C)	<code><td></code>		



	<i>(1 mark for writing the correct option)</i>	
10.	Which of the following is <i>not</i> an example of an Open Source Software ?	
	(A) Linux	(B) Android
	(C) Photoshop	(D) OpenOffice
Ans	(C) Photoshop	
	<i>(1 mark for writing the correct option)</i>	
	<i>Questions No.11 and 12 are Assertion and Reason type questions. Each question consists of two statements, namely, Assertion (A) and Reason (R). Select the most suitable option considering the Assertion and Reason.</i>	
11.	<p><i>Assertion (A) :</i> When you enter a query into a search engine, it retrieves and presents a list of web pages, documents, images, videos or other types of content that are relevant to your search.</p> <p><i>Reason (R) :</i> The goal of information retrieval is to effectively and efficiently find and present information that matches the user's search criteria.</p>	
	(A)	Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
	(B)	Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
	(C)	Assertion (A) is true, but Reason (R) is false.
	(D)	Assertion (A) is false, but Reason (R) is true.
Ans	(A) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).	
	<i>(1 mark for writing the correct option)</i>	
12.	<p><i>Assertion (A) :</i> It becomes difficult to update and maintain a website's design using CSS.</p> <p><i>Reason (R) :</i> CSS allows web developers to separate the presentation layer (styles and layout) from the content layer (HTML).</p>	
	(A)	Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
	(B)	Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of Assertion (A).
	(C)	Assertion (A) is true, but Reason (R) is false.
	(D)	Assertion (A) is false, but Reason (R) is true.
Ans	(D) Assertion (A) is false, but Reason (R) is true.	



(1 mark for writing the correct option)

SECTION B

7x2=14

13. Write any two points of comparison between Chat and Email in context of web services.

Ans	Chat	Email
	<ol style="list-style-type: none">1. Chat offers instant real-time communication.2. Chat services often require both parties to be online simultaneously3. Users need to be on the same platform for chatting4. Chats are often informal and lack legal validity	<ol style="list-style-type: none">1. Email allows messages to be sent and received at different times.2. Both parties need not be online simultaneously3. Users can send/receive emails regardless of the domain4. Emails serve as formal communication channels and carry legal validity

Note: Any two from above or any other valid points

(1 Mark for writing each correct point of difference - any two)

Note : ½ Mark for each valid point mentioned for either chat or email

14. (a) Write in brief about any two advantages of e-Banking.

Ans The advantages of e-Banking are :

- **Convenience:** Transactions can be done anytime, anywhere.
- **Faster Transactions:** Speeds up processes like fund transfers and bill payments.
- **Enhanced Security:** Provides advanced measures to protect against fraud.
- **Environmental Benefits:** Reduces paper usage and carbon emissions.

Note: Any two from above or any other valid points

(1 Mark each for writing any two correct advantages)

OR

(b) Write in brief one advantage and one limitation of e-Reservation.

Advantages (any one of the following or any other valid points)

- Convenient as it can be done from anywhere at any time.
- Time saving as there is no need to go to the counter and stand in queues.
- Prices can be compared easily.
- Multiple payment options are available.

Limitations (any one of the following or any other valid points)

- Additional booking charges are added to the booking cost.
- Technical issues such as server down, slow internet, etc.
- Risk of security and online fraud issues.

(1 Mark for writing any one correct advantage of e-Reservation)

(1 Mark for writing any one correct limitation of e-Reservation)

15.	Write any one point of difference between a webpage and a website.					
	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 50%;">Webpage</th> <th style="width: 50%;">Website</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;"> 1. A webpage refers to a single document or file that is accessible through a web browser. 2. Webpages are typically interconnected through hyperlinks. (Any one of the above or any other valid points) </td> <td style="width: 50%;"> 1. A website is a collection of related webpages that are inter-connected. 2. It consists of multiple interconnected webpages organized hierarchically or thematically (Any one of the above or any other valid points) </td> </tr> </tbody> </table>	Webpage	Website	1. A webpage refers to a single document or file that is accessible through a web browser. 2. Webpages are typically interconnected through hyperlinks. (Any one of the above or any other valid points)	1. A website is a collection of related webpages that are inter-connected. 2. It consists of multiple interconnected webpages organized hierarchically or thematically (Any one of the above or any other valid points)	
Webpage	Website					
1. A webpage refers to a single document or file that is accessible through a web browser. 2. Webpages are typically interconnected through hyperlinks. (Any one of the above or any other valid points)	1. A website is a collection of related webpages that are inter-connected. 2. It consists of multiple interconnected webpages organized hierarchically or thematically (Any one of the above or any other valid points)					
	<p><i>(2 Marks for writing any one correct point of difference)</i> <i>Note: 1 Mark for correctly explaining either of the two</i></p>					
16.	(a)	Explain in brief about any two factors that are responsible for the Digital Divide.				
Ans	<p>Factors that are responsible for the Digital Divide:</p> <ol style="list-style-type: none"> 1) Uneven distribution of broadband internet and electricity access. 2) Affordability of technology for low-income individuals. 3) Lack of digital literacy and educational opportunities. 4) Rural areas often have limited digital infrastructure. <p>(Any two of the above or any other valid points)</p>					
	<p><i>(1 Mark each for explaining any two correct factors)</i></p>					
	OR					
	(b)	What are software licenses? Give one example each of a free software license and a proprietary software.				
	<p>Software licenses are legal agreements that define the terms and conditions under which the software is made available to users and indicate how users can use, modify, distribute, or share software.</p> <p>Examples :</p> <p>Free software license : GNU General Public License (GPL), Apache License etc.</p> <p>Proprietary software : Adobe Photoshop, Microsoft Office/Windows</p>					
	<p><i>(1 Mark for writing the correct explanation of software licenses)</i> <i>(½ Mark for writing an example of free software license)</i> <i>(½ Mark for writing an example of proprietary software license)</i></p>					
17.	Write any two significances of using links in an HTML webpage.					



Ans	<p>Two significances of using links in a HTML webpage are :</p> <p>Navigation: Links in HTML allow users to move from one page to another within the same website or to navigate to external websites.</p> <p>Interactivity: Links add interactivity to web pages by allowing users to interact with the content.</p> <p><i>(OR any other valid significances)</i></p>
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(1 Mark each for writing any two correct significance)

18.	(a)	<p>Match the tag with their corresponding correct attribute.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Tag</th> <th style="width: 50%;">Attribute</th> </tr> </thead> <tbody> <tr> <td><table></td> <td>start</td> </tr> <tr> <td><input></td> <td>rowspan</td> </tr> <tr> <td></td> <td>type</td> </tr> <tr> <td><td></td> <td>border</td> </tr> </tbody> </table>	Tag	Attribute	<table>	start	<input>	rowspan		type	<td>	border
Tag	Attribute											
<table>	start											
<input>	rowspan											
	type											
<td>	border											

Ans	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Tag</th> <th style="width: 50%;">Attribute</th> </tr> </thead> <tbody> <tr> <td><table></td> <td>border</td> </tr> <tr> <td><input></td> <td>type</td> </tr> <tr> <td></td> <td>start</td> </tr> <tr> <td><td></td> <td>rowspan</td> </tr> </tbody> </table>	Tag	Attribute	<table>	border	<input>	type		start	<td>	rowspan
Tag	Attribute										
<table>	border										
<input>	type										
	start										
<td>	rowspan										

(1/2 Mark each for writing the four correct matches)

OR

(b)	<p>Differentiate between bgcolor and background attributes of <body> tag. Write one HTML statement explaining the use of each attribute.</p>
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Ans	<p>Bgcolor attribute is used to set background colour of an HTML page. For example :</p> <p style="text-align: center;"><code><body bgcolor = "Red"></code></p> <p>The above statement will set the background colour of web page as red.</p> <p>Background attribute is used to specify the image that will be set as background of a web page. For example :</p> <p style="text-align: center;"><code><body background = "mypic.jpg"></code></p>
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		The above statement will set the image mypic.jpg as the background of the web page.
		<p><i>(½ Mark for writing the purpose of bgcolor)</i></p> <p><i>(½ Mark for writing the purpose of background)</i></p> <p><i>(½ Mark for any valid example of bgcolor)</i></p> <p><i>(½ Mark for any valid example of background)</i></p>
19.		Write suitable html statements to display the following text on a webpage in appropriate subscript and superscript form : <p>a. H₂O</p> <p>b. E=MC²</p>
Ans	a.	H₂O
	b.	E=MC²
		<p><i>(1 Mark for writing correct html code for part a.)</i></p> <p><i>(1 Mark for writing correct html code for part b.)</i></p>

SECTION C

4x3=12

20.	A school wants to create a webpage for the announcement of orientation programme of its Cultural Club as shown below:
	<div style="border: 1px solid black; padding: 20px;"> <h1 style="margin: 0;">ABC International School</h1> <h2 style="margin: 0;">Cultural Club</h2> <h3 style="margin: 0;">Orientation programme on 15th March 2024</h3> </div>
	<p>The school wants all the 3 lines to appear as Headings and Subheadings :</p> <ul style="list-style-type: none"> • The first line containing its name to have the boldest possible appearance as a heading in Blue color. • The second line containing the Club name should appear as a heading but its size should be smaller than the first line in green color. • The third line containing the Programme details should appear as a heading and its size should be smaller than the previous two lines in Cyan color.



	Suggest the html code to get the desired appearance of the lines in the webpage.	
Ans	<pre><h1>ABC International School</h1> <h2>Cultural Club</h2> <h3>Orientation programme on 15th March 2024</h3> OR <h1 style="color:blue">ABC International School</h1> <h2 style="color:green">Cultural Club</h2> <h3 style="color:cyan">Orientation programme on 15th March 2024</h3></pre>	
	<p><i>(1 Mark each for writing the three correct heading statements)</i> OR <i>(½ Mark each for mentioning the heading tag only)</i></p>	
21.	<p>Ayesha has shot some videos. She wants to create a webpage so as to share her creations with her followers across the world. Help Ayesha to embed her video file in the web page with the following specifications :</p>	
	<ul style="list-style-type: none"> • The name of video file is Ayesahits.mp4. • The video should play in a window of width 350 pixels and height 250 pixels. • The video controls such as Play, Pause and Volume should be visible. 	
Ans	<pre><video width = "350" height = "250" controls> <source src = "Ayesahits.mp4"> </video> OR <embed type="video/webm" src="Ayesahits.mp4" width = "350" height = "250"></pre>	
	<p><i>(1 Mark for specifying the correct tag)</i> <i>(1 Mark for correctly specifying width="350" height = "250")</i> <i>(1 Mark for correctly specifying src = "Ayesahits.mp4")</i> Note: 1. <i>The answer Video should be considered as partially correct answer and awarded 2 Marks only.</i> 2. <i>Alternative correct/valid answers should be marked accordingly.</i></p>	
22.	(a)	<p>Online Gadgets is an electronic products company. The company wishes to sell its products online for which they want to launch its website. The homepage of the website should contain the images of its products which are saved as PHONE.JPG and TV.JPG. The company wishes to open the webpage named ALLPHONES.HTML when the image PHONE.JPG is clicked. Similarly, on clicking the image TV.JPG a</p>



different webpage named as ALLTVS.HTML should open. Ensure that both the images should get displayed with a width of 200 pixels and a height of 150 pixels.

Write the code to achieve the desired result.

Note : Assume that the image and both the webpages are stored in the same folder.

Ans

Suggested answer - Option 1

```
<html>
  <head>
    <title>Online Gadgets</title>
  </head>
<body>
  <h1>Welcome to Online Gadgets</h1>
  <p>Click on the images below to view all
products: </p>
  <!--Image of Phone with link to ALLPHONES.HTML -->
  <a href="ALLPHONES.html">
    <img src= "PHONE.JPG" width ="200" height="150">
  </a>
  <!--Image of TV with link to ALLTVS.HTML -->
  <a href="ALLTVS.html">
    <img src= "TV.JPG" width ="200" height="150">
  </a>
</body>
</html>
```

OR

Suggested answer - Option 2

```
<style>
img{
  width: 200;
  height: 150;
}
</style>
<h1>Welcome to Online Gadgets</h1>
<p>Click on the images below to view all products: </p>
  <!--Image of Phone with link to ALLPHONES.HTML -->
  <a href="ALLPHONES.html">
    <img src= "PHONE.JPG">
  </a>
  <!--Image of TV with link to ALLTVS.HTML -->
  <a href="ALLTVS.html">
    <img src= "TV.JPG">
  </a>
```

(½ Mark for writing tag correctly)



(½ Mark for writing tag correctly)
 (½ Mark for writing the attributes width="200" height="150" correctly)
 (½ Mark for writing tag correctly)
 (½ Mark for writing tag correctly)
 (½ Mark for writing the attributes width="200" height="150" correctly)

Note: Ignore the other parts of the HTML code

OR

(b) Write the HTML code to design the content of the webpage in the form of lists as shown below :

Here is a shopping list with categories and items:

1. Vegetables
 - o Carrots
 - o Broccoli
 - o Spinach
2. Fruits
 - o Apples
 - o Oranges
 - o Bananas

```

<html>
  <head>
    <title>Nested Lists</title>
  </head>
  <body>
    Here is a shopping list with categories and items:
    <ol>
      <li>Vegetables</li>
      <ul>
        <li>Carrots</li>
        <li>Broccoli</li>
        <li>Spinach</li>
      </ul>
      <li>Fruits</li>
      <ul>
        <li>Apples</li>
        <li>Oranges</li>
        <li>Bananas</li>
      </ul>
    </ol>
  </body>
</html>
  
```

	<p><i>(½ Mark for writing the top line of the text content of the page correctly)</i></p> <p><i>(½ Mark for writing ... tag correctly)</i></p> <p><i>(½ Mark for writing Vegetables tag correctly)</i></p> <p><i>(½ Mark for writing Fruits tag correctly)</i></p> <p><i>(½ Mark for writing ... tags correctly)</i></p> <p><i>(½ Mark for writing the nested ... tags correctly)</i></p> <p>Note: Ignore the other parts of the HTML code</p>
23.	Explain the term “Plagiarism”. Write in brief any two examples to illustrate acts of Plagiarism.
Ans	<p>Plagiarism is the act of using someone else’s work, ideas, or intellectual property without proper credit or permission, presenting it as one’s own.</p> <p>Examples to illustrate acts of plagiarism:</p> <ol style="list-style-type: none"> 1. Copying and pasting a paragraph from a website into one’s own work without acknowledgment 2. Using images, graphs, charts, or any other visual representation without proper permission or citation. 3. Hiring someone else to write a paper or assignment and submitting it as one’s own work without acknowledging the author. 4. Paraphrasing/Rewriting someone else’s ideas or work without properly citing the original source. <p>Any two of the above or any other valid example.</p>
	<p><i>(1 Mark for writing correct explanation about plagiarism)</i></p> <p><i>(1 Mark each for writing any two correct examples of plagiarism)</i></p>

SECTION D

1x4=4

24.	(a)	<p>Write the HTML code to design a Student’s Data input form as shown below:</p> <p style="text-align: center;">Student Data Input Form</p> <p>Name : <input type="text"/></p> <p>Subscribe for Newsletter : <input type="checkbox"/></p> <p>Gender :</p> <p>Male <input type="radio"/> Female <input type="radio"/> Other <input type="radio"/></p> <p>Country :</p> <p><input type="text" value="USA"/></p>
-----	-----	--



		<p>The following input elements should be included in the form :</p> <ul style="list-style-type: none"> • A textbox to enter student's name. • A checkbox to allow the student to subscribe to a newsletter. • Radio buttons to select the gender. The buttons should be grouped with individual values as Male, Female, Other. • A list box (select dropdown) to choose the country. The available options are USA, Canada, UK and Australia.
Ans	(a)	<pre> <HTML> <HEAD> <TITLE>Student Data Input Form</TITLE> <BODY> <h1>Student Data Input Form</h1> <Form> <!--Textbox--> Name : <Input Type ="text">

 <!--Checkbox--> Subscribe for Newsletter : <Input Type="checkbox">

 <!--Radio Buttons--> Gender:
 Male <Input Type="radio" value ="male" name="gender"> Female <Input Type="radio" value= "female" name="gender"> Other <Input Type="radio" value= "other" name= "gender">

 <!--Combo Box--> Country :
 <select> <option> USA </option> <option> Canada </option> <option> UK </option> <option> Australia </option> </select>
 </form> </BODY> </HTML> </pre>
		<ul style="list-style-type: none"> • <i>Writing <h1> Student Data Input Form </h1></i> • <i>Correct use of <Form> Tag</i> • <i>Writing correct code for generating Textbox</i> • <i>Writing correct code for generating Checkbox</i> • <i>Writing correct code for generating Radio buttons</i> • <i>Writing correct code for generating Combo box</i> <p><i>(1 Mark each for writing any of the above 4 parts of the html code)</i></p>



OR

(b) Observe the screenshot of the following content in a webpage and write the HTML code to generate the desired output.

	ACTIVITY	MEMBER NAME	AGE	Email
DETAILS	Chess Club	John Doe	28	john.doe@example.com
	Photography Club	Jane Smith	24	jane.smith@example.com
	Football Club	Michael Johnson	31	michael.johnson@example.com

Note : The table border size should be 1.

Ans (b)

```
<html>
<head>
  <title>Club Activities and Member Details</title>
</head>
<body>
  <table border="1">
    <tr>
      <th rowspan = 4>
        DETAILS
      </th>
      <th>ACTIVITY</th>
      <th>MEMBER NAME</th>
      <th>AGE</th>
      <th>Email</th>
    </tr>
    <tr>
      <td>Chess Club</td>
      <td>John Doe</td>
      <td>28</td>
      <td>john.doe@example.com</td>
    </tr>
    <tr>
      <td>Photography Club</td>
      <td>Jane Smith</td>
      <td>24</td>
      <td> jane.smith@example.com</td>
    </tr>
    <tr>
      <td>Football Club</td>
      <td>Michael Johnson</td>
      <td>31</td>
      <td>michael.johnson@example.com</td>
    </tr>
  </table>
</body>
</html>
```



```

</table>
</body>
</html>

```

(½ Mark for creating the Table)
(½ Mark for adding Border to Table with size 1)
(½ Mark for creating the first Table Heading with rowspan = 4)
(1 Mark for creating the First row of 4 Table Headings)
(½ Mark for creating the Second table row with correct values in each cell)
(½ Mark for creating the Third table row with correct values in each cell)
(½ Mark for creating the Fourth table row with correct values in each cell)

SECTION E

2x4=8

Case-Study

25.	<p>Suraj is a novice in digital communication. He has recently joined a company where most communications happen over the Internet. On multiple occasions Suraj faces problems while working over the Internet. Help him by answering the following questions :</p> <p>(a) Suraj is asked to send an email to his supervisor. He types in the content and provides the email address of the recipient as <u>www.gmail.com</u>. How is the address typed by Suraj different from the email address of the recipient?</p> <p>(b) Suraj has been asked to create a video conferencing link and share the link with all co-workers who are working from home. Suggest any two softwares which he can use for the purpose.</p> <p>(c) Suraj has been asked to upload a file containing transaction details and send it to his colleagues in the office. Which Internet protocol will be used by him and by his colleagues in the office to upload and download the file over the Internet ? Write the abbreviation as well as the full form of the protocol to be used.</p> <p>(d) Suraj has been asked to use a social networking site to promote sales of the company's products. Suggest him two commonly used social networking sites where he can post about the products and promote the company's sales.</p>
------------	--

Ans	<p>(a) An e-mail address should contain a user name and domain name separated by '@' symbol. For example, '<u>name@gmail.com</u>' or any other valid example.</p> <p>(b) Some commonly used video conferencing software are Google Meet, Zoom, Webex, Teams, Whereby etc.. (Any two names).</p> <p>(c) FTP/SFTP is used to transfer files over internet. It stands for File Transfer Protocol/ Secure File Transfer Protocol or any other correct protocol.</p> <p>(d) Some commonly used social networking sites where Suraj can promote the company's sales are : Facebook, Instagram, LinkedIn, Whatsapp, Wechat, Telegram etc. (Any two names)</p>
------------	--

(1 mark for writing the characteristics of an email-id OR giving any valid example of email-id)
(½ Mark each for any two correct examples of video conferencing software)

		<p><i>(½ Mark each for the abbreviation and full form)</i></p> <p><i>(½ Mark each for any two correct examples of social networking sites)</i></p>
26.	<p>Raghu is a painter and blogger. He regularly updates his paintings on his blog. Recently, he saw one of his paintings being used in a presentation by his friend, Nityananda, without acknowledging Raghu as the creator.</p> <p>(a) What crime (if any) has been committed by Nityananda ?</p> <p>(b) Raghu appraised Nityananda about IPR and its associated violations. Expand the term IPR.</p> <p>(c) Raghu wants to use e-Commerce to sell his paintings online. Write any two precautions that he should take while using e-Commerce.</p> <p>(d) Mention any two netiquettes which Raghu should follow while being online.</p>	
Ans		<p>(a) Nityananda has committed Plagiarism/Copyright/IPR Infringement</p> <p>(b) IPR is Intellectual Property Rights</p> <p>(c) (i) Verify the authenticity of the website. Look for signs of legitimacy, such as a secure connection (https://), contact information, customer reviews, and trust seals</p> <p>(ii) Use Secure payment methods</p> <p>(iii) Use Strong Passwords</p> <p>(iv) Use updated software including antivirus</p> <p>(Any two)</p> <p>(d) (i) Respect privacy</p> <p>(ii) Think before posting</p> <p>(iii) Be respectful</p> <p>(iv) Acknowledge sources</p> <p>(Any two)</p>
		<p><i>(1 Mark for mentioning Plagiarism/Copyright/IPR Infringement as the crime)</i></p> <p><i>(1 Mark for writing the correct full form of IPR)</i></p> <p><i>(½ Mark each for mentioning any two precautions)</i></p> <p><i>(½ Mark each for mentioning any two netiquettes)</i></p>

