COMPUTER APPLICATIONS (CODE 165)
SAMPLE QUESTION PAPER* (THEORY)
CLASS X (2026-27)

Time Allowed: 2 Hours **Maximum Marks: 50**

General Instructions:

1) This Question Paper has 5 Sections A-E.
2) All Questions are compulsory. However, internal choices have been provided in some of the questions.
3) Section A has 12 questions carrying 01 mark each.
4) Section B has 7 questions carrying 02 marks each.
5) Section C has 4 questions carrying 03 marks each.
6) Section D has 1 question carrying 04 marks.
7) Section E has 2 Source based /Case-based /Passage based Questions carrying 04 marks each.

QNO	Section-A (1 to 12) 12 x 1 = 12 Marks	MARKS
1	Which of the following is responsible for requesting a web page from a web server? A. Web Browser B. Web Page C. HTML D. SMTP	**1**
2	Identify the protocol that provides a secure, encrypted channel for remote login over an insecure network. A. `TELNET` B. `SSH` C. `HTTP` D. `TCP`	**1**
3	Which internet service allows users to participate in real-time text-based communication? A. E-learning B. Chat C. E-Groups D. News groups	**1**
4	Which attribute of the <img> tag is used to specify the path of the image to be displayed? A. `href` B. `src` C. `link` D. `source`	**1**
5	Anish wants to merge three cells of a single row in an HTML table. Which attribute should he use? A. `rowspan` B. `colspan` C. `width` D. `align`	**1**
6	Which of the following is a valid example of a Web Address (URL)? A. student@school.com B. 192.168.1.1 C. https://www.ncert.nic.in D. C:/Documents/index.html	**1**

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7	The process of transferring a file from our local computer to a remote web server is called: A. Downloading B. Uploading C. Browsing D. Retrieving	**1**
8	The set of rules and manners that should be followed while communicating online is known as: A. Cyber Crime B. Netiquettes C. Digital Divide D. Software License	**1**
9	Which of the following refers to the ownership and legal rights over digital assets such as online content, videos, and music? A. Netiquettes B. Digital Property Rights C. Freedom of Information D. E-commerce Fraud	**1**
10	State whether the following statement is True or False: The World Wide Web (`WWW`) and the Internet are exactly the same thing.	**1**
	Q-11 and Q-12 are Assertion (A) and Reason (R) Type questions. Choose the correct option as: A. Both A and R are True, and R correctly explains A. B. Both A and R are True, but R does not correctly explain A. C. A is True, but R is False. D. A is False, but R is True.	
11	Assertion (A): A Web Browser is a software application used to access information on the World Wide Web. Reason (R): Google Chrome and Mozilla Firefox are examples of web development software.	**1**
12	Assertion (A): `SMTP` is used by the receiver to download emails from the mail server. Reason (R): `POP3` is a protocol designed for retrieving emails from a remote server to a local client.	**1**
	Section-B (13 to 19) 7X2 = 14 Marks	
13	Explain the purpose of the `vlink` and `alink` attributes used within the `<body>` tag.	**2**
14	**A** A school is developing a digital learning platform where students can submit projects and communicate with teachers online. The school wants to ensure that the system is efficient, reliable, and secure for sending and receiving files. A student is required to send an electronic project report as an email attachment to the teacher. Based on the given scenario, answer the following questions: a. Identify the protocol used for sending emails and justify your answer with one appropriate reason. b. Explain one possible problem that could occur if an unsuitable or insecure protocol is used, and suggest one measure the school can implement to ensure secure email communication. **OR** **B** What do you understand by the term web-address? How is it different from an email address?	**2**

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15	What is the significance of the `alt` attribute in the `<img>` tag? Provide one scenario where it is useful.	**2**
16	**A** Write the HTML code to embed an audio file named song.mp3 into a webpage. Ensure that the audio plays automatically. **OR** **B** Write the HTML code snippet to create an Ordered List of the top three winners of a competition. However, the list should start numbering from '4' instead of '1'. List items are as shown below (4. Rahul, 5. Sneha, 6. Amit)	**2**
17	How can we create a hyperlink that directly opens the user's email client to send an email to `"info@school.com"`? Write the syntax.	**2**
18	**A** Explain the purpose of the style attribute in HTML. Write an HTML statement to set the font color of a paragraph to "red" using inline CSS. **OR** **B** Ravi is trying to make an online payment on an e-commerce website. He sees that the website's URL starts with "http". Should he continue with the payment? Give reasons to support your answer	**2**
19	What is e-Governance? Give one example of an e-Governance website in India.	**2**
	Section-C (20 to 23) 4X3 = 12 Marks	
20	The following HTML statements contain errors. Rewrite the correct statements for each. I. `<a src="page2.html">Next Page</a>` II. `<img href="flower.jpg" alt="Rose">` III. `<ul type="A"><li>Item 1</li></ul>`	**3**
21	A. With reference to mobile technologies, briefly explain the following: I. SMS II. 3G III. 5G	**3**
22	**A** I. Write the HTML code to embed a video file named `documentary.mp4` into a webpage. The video should have a width of 400 pixels and a height of 300 pixels. It should display playback controls. II. Which attribute of the <font> tag is used to specify the font family? **OR** **B** Write the HTML code to create a table with 2 rows and 2 columns and a border of 2. The first row should be the table header containing `Roll No` and `Name`, and the second row should contain the values `1` and `Rahul` respectively.	**3**
23	**A** Write the HTML code to display the following statements on a webpage: I. The chemical formula for Sulfuric Acid is H_2SO_4. II. The Pythagorean theorem is $a^2 + b^2 = c^2$. III. The coordinates are represented as (X_1, Y_1).	**3**
	Section-D (24 to 24) 1X4 = 4 Marks	
24	**A** Write the complete HTML code to design a webpage with the following specifications:	**4**

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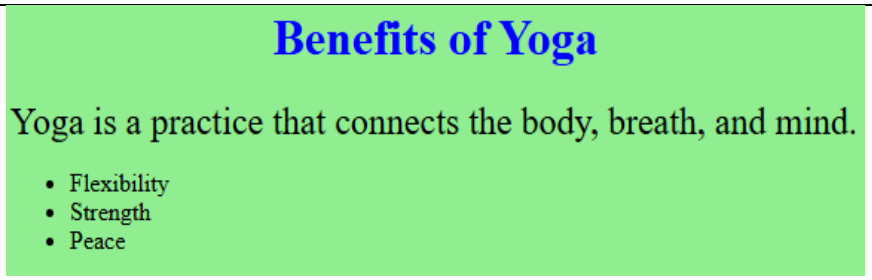
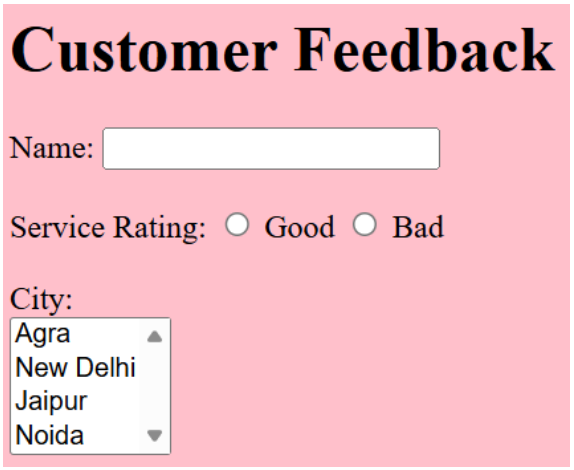


(I) The title of the webpage should be `"Healthy Living"`.
(II) Background color of the page should be `"LightGreen"`.
(III) The main heading `"Benefits of Yoga"` should be in color `"Blue"`.
(IV) The paragraph describing yoga (as shown above) with font size `"5"`.
(V) An unordered list listing three benefits: `"Flexibility"`, `"Strength"`, `"Peace"`.

OR

B Write the complete HTML code to design a **"Feedback Form"** as shown here, according to the specifications given below:



I. **Background Color:** The page background should be "Pink".
II. **Heading:** "Customer Feedback" in the largest heading tag, center-aligned.
III. **Form Elements:**
   - **Name:** A Text box to accept the user's name.
   - **Service Rating:** Two Radio buttons with labels "Good" and "Bad".
   - **City:** A List box, showing four city names.

	Section-E (25 to 26) 2X4 = 8 Marks	
25	Rohan receives an email informing him that he has won a ₹1 Crore lottery prize. The email instructs him to click on a link and enter his bank details, including his account number, password, and OTP, in order to claim the reward. Just as Rohan is about to click the link, his sister intervenes and warns him. I. Which type of online fraud is being attempted in this situation? II. Why do you think the attacker requested the OTP? III. Mention one precaution that can help prevent such fraud attempts.	**4**

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	IV. State one visual clue that usually indicates a fraudulent website or email.	
26	Maya is a talented software developer who has created a new photo-editing application. She wants to share her software with the public so that other developers can learn from her code and improve upon it. However, she also wants to ensure that she receives credit as the original creator and that no one can claim her work as their own or sell it without her permission. Based on the above information, answer the following questions: I. Maya decides to release the software under a license that allows anyone to view, modify, and distribute the source code freely. What type of software is this called? II. Which Intellectual Property Right (IPR) automatically protects Maya's original code from being copied or claimed by others without her permission? III. If Maya wants to prevent others from using her software's unique name or logo to sell fake versions of her app, which form of protection should she register for? IV. A competitor downloads Maya's code, removes her name, and sells it as their own product without making any changes. What is this unethical act called?	**4**

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COMPUTER APPLICATIONS (CODE 165)
MARKING SCHEME
CLASS X (2026-27)

Time Allowed: 2 Hours **Maximum Marks: 50**

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5) Section C has 4 questions carrying 03 marks each.
6) Section D has 1 question carrying 04 marks.
7) Section E has 2 Source based /Case-based /Passage based Questions carrying 04 marks each.

QNO	Section-A (1 to 12) 12 x 1 = 12 Marks	MARKS
1	A. Web Browser *(1 mark for the correct answer)*	**1**
2	B. `SSH` *(1 mark for the correct answer)*	**1**
3	B. Chat *(1 mark for the correct answer)*	**1**
4	B. src *(1 mark for the correct answer)*	**1**
5	B. `colspan` *(1 mark for the correct answer)*	**1**
6	C. https://www.ncert.nic.in *(1 mark for the correct answer)*	**1**
7	B. Uploading *(1 mark for the correct answer)*	**1**
8	B. Netiquettes *(1 mark for the correct answer)*	**1**
9	B. Digital Property Rights *(1 mark for the correct answer)*	**1**
10	False *(1 mark for the correct answer)*	**1**
11	C. A is True, but R is False. *(1 mark for the correct answer)*	**1**
12	D. A is false but R is true. *(1 mark for the correct answer)*	**1**
	Section-B (13 to 19) 7X2 = 14 Marks	
13	The `vlink` (Visited Link) attribute is used to specify the color of a hyperlink that the user has already clicked/visited. The `alink` (Active Link) attribute specifies the color of a link at the exact moment it is being clicked by the user. *(1 mark for each correct part)*	**2**
14	**A** a. Protocol used for sending emails: SMTP (Simple Mail Transfer Protocol) Justification:	**2**

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	• SMTP is the standard protocol for sending emails from a sender's client to the recipient's mail server. • It supports attachments, making it suitable for sending project reports. **(Any one)** b. Possible problem if an unsuitable or insecure protocol is used: • Emails may fail to send or get delayed. • Messages could be intercepted or read by unauthorized users if security is weak. **(Any one)** Measure to ensure secure email communication: • Implement strong authentication for student accounts. • Educate users to verify recipient email addresses before sending sensitive files. **(Any one)** 1 Mark for each correct answer **OR** **B** A web address (URL) is used to locate a website. Web address (URL) is used to locate a website while an email address is used to send and receive emails. (1 mark for correct definition) (1 mark for correct difference)	
15	The alt (alternate text) attribute provides a textual description of an image. If an image fails to load (due to any reason like slow internet), the text given in the alt attribute is displayed, helping the user understand what the image represents. *(1 mark for each correct part)*	**2**

16	**A** <audio src="song.mp3" autoplay controls></audio>
	(1 mark for <audio> tag, 1 mark for autoplay attribute)
	OR
	B
	`<ol start="4">`
	`<li>Rahul</li>`
	`<li>Sneha</li>`
	`<li>Amit</li>`
	`</ol>`
	(2 mark for correct answer)
		2

17	We can use the `mailto` scheme within the `href` attribute of an anchor `(<a>)` tag. Syntax: `<a href="mailto:info@school.com">Contact Us</a>` *(1 mark for each correct part)*	**2**
18	**A** **Purpose**: The style attribute is used to apply CSS rules directly to an individual HTML element. (1 Mark) **Code**: This is a paragraph. (1 Mark) **OR** **B** Ravi should not continue with the payment if the website's URL starts with "http" because it is not secure. "https" is required for safe transactions. (1 mark for correct choice) (1 mark for correct justification)	**2**
19	**e-Governance** is the application of Information and Communication Technology (ICT) for delivering government services to citizens in a convenient, efficient, and transparent manner.	**2**

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	Example: https://www.india.gov.in (National Portal of India) or **Passport Seva or DigiLocker.** *(1 mark for each correct part)*	
	Section-C (20 to 23) 4X3 = 12 Marks	
20	I. Next Page (Correction: The attribute for anchor tag is href, not src). II. <img src="flower.jpg" alt="Rose"> (Correction: The attribute for image tag is src, not href). III. <ol type="A"> - Item 1 or - Item 1 (Correction: Type "A" is for Ordered Lists , not Unordered Lists). *(1 mark for each correct part)*	**3**
21	A **I.** SMS (Short Message Service): A text messaging service component of most telephone, Internet, and mobile device systems. **II.** 3G (Third Generation): Mobile technology that introduced faster data transmission speeds allowing for video calling and mobile internet access. **III.** 5G (Fifth Generation): The latest generation of cellular mobile communications, offering ultra-low latency, massive connectivity for IoT, and significantly faster download speeds. *(1 Mark for each correct explanation = 3 Marks)*	**3**
22	**A** I. <video src="documentary.mp4" width="400" height="300" controls></video> II. face *(2 mark for part-a, 1 mark for part-b)* **OR** **B** <table border="2"> <tr> <th>Roll No</th> <th>Name</th> </tr> <tr> <td>1</td> <td>Rahul</td> </tr> </table> *(3 marks for correct code)*	**3**
23	**A** I. The chemical formula for Sulfuric Acid is H₂SO₄. II. The Pythagorean theorem is a² + b² = c². III. The coordinates are represented as (X₁, Y₁). *(3 marks for each part)*	**3**
	Section-D (24 to 24) 1X4 = 4 Marks	
24	**A** <html> <head>	**4**

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	<title>Healthy Living</title> </head> <body bgcolor="LightGreen"> Benefits of Yoga Yoga is a practice that connects the body, breath, and mind. - Flexibility - Strength - Peace </body> </html> *(½ mark each for correct HTML code for specification I, II, III, IV)* *(2 marks for correct HTML code for specification V)* **OR** **B** <html> <body bgcolor="Pink"> Customer Feedback <form> Name: <input type="text" name="name"> Service Rating: <input type="radio" name="rating" value="good"> Good <input type="radio" name="rating" value="bad"> Bad City: <select size=4> <option>Agra</option> <option>New Delhi</option> <option>Jaipur</option> <option>Noida</option> </select> </form> </body> </html> *(½ mark for correct HTML code for specification I)* *(½ mark for correct HTML code for specification II)* *(3 marks for correct HTML code for specification III-1 Mark for each sub parts)*	
	Section-E (25 to 26) 2X4 = 8 Marks	
25	I. E-commerce Fraud II. To gain unauthorized access by bypassing security checks III. Never share passwords or OTPs with anyone IV. A suspicious or incorrect email address or spelling mistakes *(1 mark for each correct part)*	**4**
26	I. Open Source Software (OSS) / Free and Open Source Software (FOSS). II. Copyright. III. Trademark.	**4**

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	IV. Plagiarism OR Software Piracy OR Copyright Infringement. *(1 mark for each correct part)*	

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