

BHARTIYA SHIKSHA BOARD

WEB APPLICATIONS (SUBJECT CODE- 175)

MARKING SCHEME for Sample Question Paper for Class XII (Session 2026-2027)

Max. Time: 3 Hours

Max. Marks: 60

General Instructions:

- 1. Please read the instructions carefully.**
- 2. This Question Paper consists of 25 questions in two sections – Section A & Section B.**
- 3. Section A has Objective type questions whereas Section B contains Subjective type questions.**
- 4. Out of the given (6 + 19 =) 25 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.**
- 5. All questions of a particular section must be attempted in the correct order.**
- 6. SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - **This section has 06 questions.**
 - **There is no negative marking.**
 - **Do as per the instructions given.**
 - **Marks allotted are mentioned against each question/part**
- 7. SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - **This section contains 19 questions.**
 - **A candidate has to do 11 questions.**
 - **Do as per the instructions given.**
 - **Marks allotted are mentioned against each question/part.**

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	c) Communication	1
ii.	c) Frustration	1
iii.	c) Self Control	1
iv.	b) Sum()	1
v.	b) Startup venture	1
vi.	c) Compressed Natural Gas (CNG)	1

Q. 2	Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)	
i	c) Internet-connected devices used to perform services and processes	1
ii	b) Cloud computing	1
iii	c) Statement1 is False, Statement 2 is True	1
iv	b) Personal computers and workstations	1
v	b) Following online guidelines to respect others and protect intellectual property rights	1
vi	a) Locally on devices	1
vii	d. Array	1

Q. 3	Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)	
i	c) onchange	1
ii	5	1
iii	c) Arrays can hold multiple values of different data types	1
iv	d) length	1
v	c) While	1
vi	c) A function can be called multiple times with different arguments	1
vii	d) string	

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i	a) Both Statement 1 and Statement 2 are true	1
ii	d) ==	1
iii	True	1
iv	b) Design	1
v	c) Trimming	1
vi.	a) Beat Sync	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	a) crown	1
ii.	b) 4GB	1
iii.	c) Grid Layout	1
iv.	b) Media	1
v.	a) Both A and R are true and R is the correct explanation of A	1
vi	b) Personal Data Protection Bill	1

Q. 6	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	b) A legal right granted by the government giving exclusive rights to an inventor for a limited time	1
ii	c) Life of the author plus 70 years	1
iii	b) Cyberbullying	1
iv	b) To scare or embarrass the target	1
v	b) Phishing attack	1
vi	b) Bhartiya Nyaya Sanhita	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 7	Two factors that affect active listening are as follows. -Eye contact: It is a form of body language. It is one of the most important aspects in the communication process. - Gestures: These indicate to the speaker if you are listening or not.	2
Q. 8	Result orientation means focusing on achieving goals. It is important as it helps employees complete tasks effectively and on time.	2
Q. 9	Benefits of using a presentation are : i) A picture speaks a thousand words. ii) We use a lot of images in a presentation to make it simple and i	2
Q. 10	Technical entrepreneurs focus on the creation and innovation of products and industrial processes, while non-technical entrepreneurs handle services related to before and after the manufacturing process.	2
Q. 11	Initiatives for enhanced use of biomass so as to improve the availability of ethanol through starch and sugar-based feedstock, develop ethanol technologies and increase the production of biodiesel for blending.	2

Answer any 3 out of the given 5 questions in 20 – 30 words each (2 x 3 = 6 marks)

Q. 12	Multitasking: The operating system allows multiple programs to run in the computer system simultaneously. It is made possible by virtual memory and preemptive job scheduling. The operating system makes it possible to run different programs together by efficiently sharing resources Data Protection: The operating system protects the data from unauthorized manipulation. The operating system enforces this through access control. Also, the operating system saves the data of different users present in the same system by effectively partitioning the data.	2
Q. 13	Two benefits of digital marketing are : 1. Helps to reach a larger customer base with less effort regardless of the location. You can connect with customers on every side of the world, in multiple time zones, as easily as though you were taking out an ad in the local newspaper.	2

	2. Digital marketing comes with a host of analytics opportunities giving you plenty of valuable insight to help grow your business. It gives you both quantitative and qualitative information on your marketing.	
Q. 14	<p>a. Boolean : The Boolean data type has only two values, true and false. It is mostly used to check a logical condition. Thus Booleans are logical data types which can be used for comparison of two variables or to check a condition</p> <p>Eg. var a =5; var b=6; a==b // This will return false</p> <p>Undefined data type means a variable that is not defined. The variable is declared but doesn't contain any value. In the following example, the variable 'a' has been declared but hasn't been assigned a value yet.</p> <p>var a; document.write(a) // This will return undefined.</p>	2
Q. 15	<p>Global Variables – A global variable has global scope which means it can be defined anywhere in your JavaScript code.</p> <p>Local Variables – A local variable will be visible only within a function where it is defined. Function parameters are always local to that function (p-26)</p>	2
Q. 16	An active digital footprint is the information a person intentionally shares online through activities like posting on social media, sending emails, commenting on websites, uploading photos, or filling online forms.	2
Q. 17	<p>Two key aspects of data security:</p> <ul style="list-style-type: none"> - Confidentiality: Ensuring that data is accessible only to authorized individuals or systems. - Integrity: Guaranteeing the accuracy, completeness, and reliability of data throughout its lifecycle. 	2

Answer any 2 out of the given 3 questions in 30– 50 words each(3 x 2 = 6 marks)

Q. 18	<ol style="list-style-type: none"> 1. Machine Learning is a branch of Artificial Intelligence (AI) in which computers learn from data and make decisions or predictions automatically without being explicitly programmed. 2. Machine Learning analyzes users' search history, preferences, and online activities to predict their interests and show relevant advertisements and recommendations. 3. Machine Learning helps organizations identify profitable opportunities and deliver faster and more accurate results. 	3
Q. 19	<p>a) pop() : Removes the last element in an array.</p> <p>Example : colors=['Red', 'Green', 'Blue', 'Yellow']; colors.pop();</p>	3

	<p>Output : Yellow</p> <p>b) unshift(): Adds a new element to an array (at the beginning), and "shifts" all other elements to a higher/larger index. Example: colors=['Red', 'Green', 'Blue', 'Yellow']; colors.unshift('Orange'); Output : will add Orange at the beginning of the array. Array will be : Purple,Red,Green,Blue</p> <p>c) join(): Joins all array elements into a string. Example : colors=['Red', 'Green', 'Blue', 'Yellow']; colors.join('&'); will give : Red&Green&Blue&Yellow</p>	
Q. 20	<p>Any three valid advantages:</p> <ol style="list-style-type: none"> 1. Cost-Effective: Canva is a cost-effective solution for designing, as it provides a range of free templates and design elements that can be used to create high-quality materials. 2. Versatile: Canva is a versatile tool that can be used to create a wide range of materials, including posters, flyers, social media graphics, and presentations. This makes it a useful tool to use for a variety of purposes, from promoting events to creating instructional material. 3. Collaboration: Canva allows multiple users to collaborate on a single design, which is useful for any organization that needs to create materials as a team. This feature allows team members to work together on a single design, making the process more efficient and collaborative 	3

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 21	<p>a) Two new AI powered tools in Canva are (Any two):</p> <ol style="list-style-type: none"> 1. Magic Media Used to turn text to video or images 2. Magic Eraser Used to brush away unwanted details and distractions from your photos. 3. Magic Edit Select a part of your image and add to, replace, or edit it with a short-written prompt. For example, select the dress in a picture and write a formal suit to change the dress to a suit. 4. Magic Write Helps you quickly reword sentences or paragraphs and summarize or expand your text. 5. Magic Design You can provide a picture or a text prompt and this AI tool will transform it into a design which you can further customize. 6. Magic Animate Automatically apply the perfect animations and transitions to your entire design. 	4
Q. 22	<p>Data privacy : Data privacy is about controlling who gets to read that journal and deciding what information you share with others, especially online</p> <p>The purpose of data privacy is to ensure that personal information is not misused or abused by third parties importance of data privacy :</p>	4

	<p>Targeted advertising: Companies use your data to personalize the ads you see, which can sometimes feel intrusive.</p> <p>You can protect your data privacy</p> <ul style="list-style-type: none"> - Be mindful of what you share online: Think twice before posting anything, especially personal information. - Adjust your privacy settings: Every website and app have privacy settings. Learn how to control who sees your information and how it's used. 	
Q. 23	<ol style="list-style-type: none"> 1. Mohan has committed accidental plagiarism because the content was copied without intentionally giving credit to the source 2. Beena has committed mosaic plagiarism because he has combined and modified sentences from different sources without acknowledging them. 3. Priya demonstrates ethical academic writing by writing in his own words after understanding the sources and providing proper citations 4. Proper citation is important because it gives credit to the original authors and helps maintain academic integrity by avoiding plagiarism. 	4
Q. 24	<pre> <html> <body> <script> s=prompt("enter the string"); k=s.length; i=0; c=0; while (i<k) { if (s.charAt(i).toUpperCase()=='A') { c=c+1; } i=i+1; } document.write("
 Count : " +c); </script> </body> </html> </pre>	4
Q. 25	<pre> with 7 Ind#a is a same -7 16 8 4 </pre>	4