CBSE | DEPARTMENT OF SKILL EDUCATION

WEB APPLICATION (SUBJECT CODE -803)

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.	d) Adequate sleep	**1**
ii	c) feedback	**1**
iii.	b) Statement1 is True, Statement 2 is False	**1**
iv.	c) Neuroticism	**1**
v.	c) It avoids any kind of risk in business	**1**
vi.	d) Environmental quality	**1**
Q. 2	**Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)**	
i.	c) Wi-fi	**1**
ii.	c) Vendor Lock-in	**1**
iii.	d) All of these	**1**
iv.	c) Autonomous Vehicles	**1**
v.	a) To make the most efficient use of the computer hardware	**1**
vi.	b) Artificial Intelligence is a branch of Machine Learning	**1**
vii.	d) If you give single index it will extracts the string character at that index only	**1**
Q. 3	**Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)**	
i.	b) browser	**1**
ii.	b) !	**1**
iii.	c) Object	**1**
iv.	d) Both the Statements are False	**1**
v.	b) It can have long-term consequences in various aspects of your life.	**1**
vi.	a) join( )	**1**
vii.	b)1	**1**

Q. 4	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**	
i.	c) 2. and 4.	**1**
ii.	a) Email Spoofing	**1**
iii.	a) Adobe Firefly generative AI	**1**
iv.	d) Projects	**1**
v.	d) Splitting can only be done from the beginning and end of a video.	**1**
vi.	c) Statement1 is False, Statement 2 is True	**1**
Q. 5	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**	
i.	b) Media	**1**
ii.	d) Trade secret	**1**
iii.	b) To steal personal information such as passwords, credit card details, or login credentials.	**1**
iv.	b) Bharatiya Nyaya Sanhita	**1**
v.	a) Beat Sync	**1**
vi.	b) Explain that sharing passwords is risky and suggest they create their own account.	**1**
Q. 6	**Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**	
i.	d)-9	**1**
ii.	b)onclick	**1**
iii.	b)isNaN( )	**1**
iv.	c) Denial of Service	**1**
v.	c) The function myFunction( ) gets invoked.	**1**
vi.	b) Report the cyberbullying to a teacher or trusted adult.	**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 – 50 words.		
Q. 7	Effective communication involves skills that can be utilised to send messages that are **clear**, **concise** and **accurate**. A **clear** statement is one which conveys the exact message that you are trying to convey to the other person. A **concise** statement is appropriately brief or to the point and an **accurate** statement is one that is factual, i.e., its correctness can be verified.	**2**
Q. 8	**Intrinsic Motivation** comes from within and for which there is no apparent reward but one derives enjoyment and satisfaction in doing them. Students who love to play a game because it gives them joy and excel at it. **Extrinsic motivation** makes you do something because of incentives or external rewards. For example you study a subject to do well at an exam but otherwise you have no interest in the subject.	**2**
Q. 9	The steps to apply filter to a table are as follows.(½ mark for each step) 1. Click on AutoFilter icon on the Tool Bar. This will put filters at the top of each column. 2. Click on the filter for 'Item' column. 3. The drop-down will show a list of all the values in that column. 4. By default, all values will be checked, uncheck everything other than Home Theatre and click OK.	**2**
Q. 10	The barriers to entrepreneurship are: (Write any **four**) • Lack of adequate resources or raw material • Non-availability of skilled labour • Lack of requisite machinery and other infrastructure • Unavailability of monetary resources on time • No or faulty business plan • Personal barriers	**2**
Q. 11	Ways to check the rising pollution levels are: (Similar examples are acceptable) • Planting more trees • Use an eco-friendly mode of transport such as a bycycle, public transport, electric or CNG autorickshaw or car. • Reduce the use of plastic. • Use Solar Power	**2**
Answer any 3 out of the given 6 questions in 20 – 50 words each (2 x 3 = 6 marks)		
Q. 12	a) String b) Integer or Number c) Boolean d) Array	**2**

Q. 13 (2)

Built-in functions are already defined in JavaScript and can be used to perform some specific tasks.

a) prompt() : This is a built-in function to take user input as string. For example the user can enter a string which will be assigned to variable 'msg'.
var msg=prompt("Enter your message")

b) parseInt( ): This is a built-in function used to convert a string or floating point number to an integer. The string should start with a number.
x=parseInt("23 string")
y=parseInt(45.5)
The value of x will be 23 and y will be 45.

Q.14 (2)

Any **two** differences can be given:

Artificial Intelligence	Machine learning
This technology enables a machine to simulate human behavior.	This is a branch of AI which allows a machine to automatically learn from past data without programming explicitly.
AI is used to make a smart computer system like humans to solve complex problems.	ML helps machines to learn from data so that they can give accurate output.
Creating an intelligent system that can perform various complex tasks is the goal	Creating machines that can perform only those specific tasks for which they are trained is the goal.
Maximizing the chances of success is the focus	Accuracy and patterns is the focus
Siri, customer support using catboats, Online game playing, expert systems and intelligent humanoid robot are some applications of AI	Google search algorithms, online recommender system, Facebook tagging suggestions, etc. are some applications of ML

Q. 15 (2)

The output of the following will be 2 (x is 89.2, y is -91.5, the sum is 2.3 and z will be 2)

```
x=Math.max(81.6,89.2,-91.5)
y=Math.min(81.6,89.2,-91.5)
z=Math.ceil(x+y)
document.write(z)
```

Q. 16 (2)

Cyberbullying is the use of electronic means to bully or harass another person. It can happen anywhere online, including social media, messaging platforms, gaming platforms, and even text messages. It includes posting negative or false content about someone else causing embarrassment or humiliation.

Q. 17 (2)

Any two of the following can be given:

1. **Faster time to market:** Cloud computing supports new innovations by making it easy to test new ideas and design new applications without hardware limitations or slow procurement processes.
2. **Scalability and flexibility:** We can quickly scale resources and storage up to meet business demands without having to invest in physical infrastructure.

	3. **Cost savings:** Whatever cloud service model you choose, you only pay for the resources you actually use. 4. **Better collaboration:** Instead of being tied to a location or specific device, cloud storage enables data access from anywhere in the world from any internet connected device. 5. **Advanced security:** Cloud computing can actually strengthen your security because of the depth of security features.	
Answer any 2 out of the given 3 questions in 30– 90 words each (3 x 2 = 6 marks)		
Q. 18	**Operating System (OS)** is an interface between a user and computer system. It is a software which performs all the basic tasks like file management, memory management, process management, handling input and output, and controlling peripheral devices. Windows, Linux, MacOS are examples of operating systems. **Real-time operating system** refers to any information processing system with hardware and software components that perform real-time application functions and can respond to events within predictable and specific time constraints. Examples are air traffic control systems, process control systems, and autonomous driving systems.	**3**
Q. 19	In JavaScript events can take place whenever there is a change in the state of some object and reacting to events is known as event handling. **(**Any **one** of the following 6 examples can be written**)** `<!DOCTYPE html>` `<html>` `<head><title>onload Event</title></head>` `<body onload="onPageLoad()">` `<script>` `function onPageLoad()` `{ alert('Page loaded!'); }` `</script> </body></html>` `<!DOCTYPE html>` `<html>` `<head> <title>onclick Event</title> </head>` `<body>` `<button onclick="showTime()">DateTime Today</button>` `<p id="demo"></p>` `<script>` `function showTime() {` `document.getElementById('demo').innerHTML = Date();}` `</script> </body></html>` `<!DOCTYPE html>` `<html>` `<head><title>onkeydown Event</title> </head>` `<body>` `<input type="text" id="myKeyDownInput"` `onkeydown="keyDownFunction()" placeholder="Press any key...">` `<script>` `function keyDownFunction() {` `alert('Key down event triggered!'); }` `</script> </body></html>`	**3**

```
<!DOCTYPE html>
<html>
<head><title>onmouseout Event</title> </head>
<body>
<div id="mouseOutDiv"
onmouseout="mouseOutFunction()">Mouse out of me!</div>
<script>
  function mouseOutFunction()
  {
    document.getElementById('mouseOutDiv').innerHTML =
'Mouse out event triggered!'; }
</script> </body></html>
```

```
<!DOCTYPE html>
<html>
<head><title>onchange Event</title> </head>
<body>
<input type="text" id="myInput" onchange="handleChange()"
placeholder="Type here...">
<p id="demo"></p>
<script>
  function handleChange()       {
    var inputText =
document.getElementById('myInput').value;
    alert('Input changed to: ' + inputText);
  }
</script> </body></html>
```

```
<!DOCTYPE html>
<html>
<head><title>onmouseover   Event</title> </head>
<body>
<div id="mouseOverDiv"
onmouseover="mouseOverFunction()">Mouse over me!</div>
<script>
 function mouseOverFunction()    {
    document.getElementById('mouseOverDiv').innerHTML =
'Mouse over event triggered!';   }
</script> </body></html>
```

Q.20	Graphic designing is the process of transforming any idea or content into a visually appealing, eye-catching form. Some popular tools for graphic designing are Canva, Adobe Express, CorelDraw. Graphic designing is used for: (Any **four** of these) • Print, Television or Social Media Advertising • Creating Logos and Product Packaging for companies or organizations • Social Media Content • Media Campaigns for Movies and Music Videos. • Websites • Posters, Brochures and Pamphlets • Events such as product or business launch, weddings etc.	**3**

Answer any 3 out of the given 5 questions in 30– 100 words each (4 x 3 = 12 marks)

Q. 21 **a)**	We will do this better Next time This 32 WE WILL DO THIS BETTER THIS TIME	**4**
b)	-2 8 16 0	
Q. 22	**a) Difference between splitting, cutting and trimming a video** When you split a video, you divide a video into two parts each time. When you cut a video, you remove a part of a video or footage. When you trim a video, you remove just the start or end of a video or footage. The trimmed video is hidden and not deleted. **b) Steps to split a video in Adobe Express.** 1. In the video editor bring the playhead to the point on the video where you want to split. 2. Click on the ellipsis(…) and choose **Split** from the pop menu. 3. The video will now be split into two parts at that point.	**4**
Q. 23 **a)**	If I receive a message with a link from an unknown number, the cybercrime is **phishing.** I will take the following steps for cyber safety: ➢ I will not click or open the link ➢ Inform my parents/trusted elder about it. ➢ Call the school's official number or visit the school office to check whether there is any problem or not. ➢ If the message is not from the school, I will delete the message and block the number.	**4**
b)	If it is a secure and a trusted website(Google Scholar for example) which provides free access to research papers, I will read and enhance my knowledge about that particular topic. However it will be wrong to download and use the paper, as it is will be **plagiarism**. I can cite the paper and **acknowledge the source used**. I can also read multiple papers on the topic and **create an original project**, then **provide a list of all the sources that I used**, with the names of the authors and other details.	
Q. 24	**Trademark** A trademark is a type of intellectual property that consists of a recognizable sign, design, or expression that identifies a specific product or service from a particular source and distinguishes it from others. Trademarks can take many forms, including names, slogans, logos, icons, jingles etc. **Copyright** Copyright is a type of intellectual property that protects original works of authorship and gives the creator control over reproduction, distribution, performance, and derivative works based on the original. This can include various forms such as literary, artistic, musical, dramatic works etc.	**4**

Q. 25		**4**
a)	`<!DOCTYPE html>` `<html>` `<head>` `<title>Sorting Numbers</title>` `</head>` `<body>` `<p id="demo"></p>` `<script>` `alert("Enter three distinct numbers")` `var num1=parseInt(prompt("Enter the 1st number"))` `var num2=parseInt(prompt("Enter the 2nd number"))` `var num3=parseInt(prompt("Enter the 3rd number"))` `function sortnum(a,b,c)` `{` `if(a<b && a<c)` `{ if(b<c)` `order=a+", "+b+", "+c` `else` `order=a+", "+c+", "+b` `}` `else if(b<c)` `{ if(a<c)` `order=b+", "+a+", "+c` `else` `order=b+", "+c+", "+a` `}` `else` `{ if(a<b)` `order=c+", "+a+","+b` `else` `order=c+", "+b+", "+a` `}` `return order` `}` `document.getElementById("demo").innerHTML = "The` `ascending order of numbers is: "+sortnum(num1,num2,num3)` `</script>` `</body>` `</html>`	
b)	**pop( )** method is used in array objects to remove the last element in an array. It returns the removed element. The rest of the array elements remain as they are so no index is changed.	

	shift( ) method is used in array objects to remove the first element in an array. It returns the removed element. Since this method removes the first element from the array it "shifts" every subsequent element to a lower index.	