

Marking Scheme
Strictly Confidential
(For Internal and Restricted use only)
Senior Secondary School Examination, 2026 (XIIth)
SUBJECT NAME : Web Application (Q.P. CODE 803/327)

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 Newspaper/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-XII, 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 totalled 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 _____ (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	Ensure that you do not make the following common types of errors committed by the Examiner in the past :- • Leaving answer or part thereof unassessed in an answer book. • Giving more marks for an answer than assigned to it. • Wrong totalling or marks awarded on an answer. • Wrong transfer of marks from the inside pages of the answer book to the title page. • Wrong question wise totalling on the title page. • Wrong totalling 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 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 totalling error detected by the candidate shall damage the prestige of all the personnel engaged in the evaluation work as also as 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 totalled 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
Web Application (Subject Code-803)
(PAPER CODE : 327) (P3270803)

Q.No.	EXPECTED OUTCOMES/VALUE POINTS	Distribution of Marks	Marks
	SECTION – A		
1.	(i) (B) A group of words that communicates a complete thought or meaning (ii) Stress is a state of feeling upset, annoyed and hopeless (Any other valid answer also to be accepted) (iii) (A) Suspicious (iv) (B) Information and Communication Technology (v) (D) Work area (vi) ‘Start Up India’	U-1 Pg-9 U-2 Pg-26 U-2 Pg-34 U-3 Pg-39 U-3 Pg-42 U-5 Pg-89	1 1 1 1 1 1
2.	(i) (B) Real-Time Operating System (1 mark for correct answer) (ii) (D) Suspended AI (1 mark for correct answer) (iii) (B) To treat others with respect and protect intellectual property rights (1 mark for correct answer) (iv) (D) Vendor lock-in (1 mark for correct answer) (v) False (1 mark for correct answer) (vi) (C) Both Statement 1 and Statement 2 are true (1 mark for correct answer) (vii) (B) Function (1 mark for correct answer)	CBSE BOOK UNIT-1 PAGE-6 CBSE BOOK UNIT-1 PAGE-13 CBSE BOOK UNIT-1 PAGE-15 CBSE BOOK UNIT-1 PAGE-10 CBSE BOOK UNIT-1 PAGE-7 CBSE BOOK UNIT-1 PAGE-16 CBSE BOOK UNIT-2 PAGE-29	1 1 1 1 1 1 1 1
3.	(i) (A) Built-in function (1 mark for correct answer) (ii) False (1 mark for correct answer) (iii) (D) returns the number of items in the array (1 mark for correct answer) (iv) False (1 mark for correct answer) (v) (B) The right to control one’s personal information and how it is collected, used and accessed (1 mark for correct answer) (vi) (B) arguments, parentheses (1 mark for correct answer) (vii) (B) Functions that are called when an event occurs (1 mark for correct answer)	CBSE BOOK UNIT-2 PAGE-31 CBSE BOOK UNIT-2 PAGE-43 CBSE BOOK UNIT-2 PAGE-48 CBSE BOOK UNIT-3 PAGE-89 CBSE BOOK UNIT-4 PAGE-112 CBSE BOOK UNIT-2 PAGE-30 CBSE BOOK UNIT-2 PAGE-52	1 1 1 1 1 1 1 1

4.	Answer any 5 out of the given 6 questions		(5x1=5)
	(i) (C) Magic Edit (1 mark for correct answer) (ii) False (1 mark for correct answer) (iii) (A) Adobe Firefly generative AI (1 mark for correct answer) (iv) (B) S (1 mark for correct answer) (v) (B) Elements (1 mark for correct answer) (vi) (A) Cliff Obrecht, Cameron Adams (1 mark for correct answer)	CBSE BOOK UNIT-3 PAGE-89 CBSE BOOK UNIT-4 PAGE-128 CBSE BOOK UNIT-3 PAGE-91 CBSE BOOK UNIT-3 PAGE-75 CBSE BOOK UNIT-3 PAGE-70 CBSE BOOK UNIT-3 PAGE-66	1 1 1 1 1 1
5.	(i) True (1 mark for correct answer) (ii) (C) Trademark (1 mark for correct answer) (iii) (B) If a crime involves a computer or network located in India (1 mark for correct answer) (iv) (B) The Patents Act, 1970 (1 mark for correct answer) (v) (B) Statement-1 is False and Statement-2 is True (1 mark for correct answer) (vi) (B) Accidental (1 mark for correct answer)	CBSE BOOK UNIT-3 PAGE-88 CBSE BOOK UNIT-4 PAGE-123 CBSE BOOK UNIT-4 PAGE-129 CBSE BOOK UNIT-4 PAGE-122 CBSE BOOK UNIT-3 PAGE-77 CBSE BOOK UNIT-4 PAGE-119	1 1 1 1 1 1
6.	(i) (B) Banana-Orange (1 mark for correct answer) (ii) (A) Statement 1 is true, but Statement 2 is false (1 mark for correct answer) (iii) (C) The number of items in the array (1 mark for correct answer) (iv) (B) 358 (1 mark for correct answer) (v) (B) 6 and 5 (1 mark for correct answer) (vi) (B) 2008 (1 mark for correct answer)	CBSE BOOK UNIT-2 PAGE-43 CBSE BOOK UNIT-2 PAGE-37,38 CBSE BOOK UNIT-2 PAGE-46 CBSE BOOK UNIT-4 PAGE-131 CBSE BOOK UNIT-2 PAGE-51 CBSE BOOK UNIT-4 PAGE-130	1 1 1 1 1 1
7.	Communication is a two-way process through which information or message is exchanged between individuals using language, symbols, signs or behaviour. Speaking, listening, reading and writing are the parts	U-1 Pg-1	2

	of communication. (2 mark for correct answer)		
8.	Four parameters of individual personality are : 1. Openness – Individuals are Creative, curious, active, flexible and adventurous 2. Consciousness – Self disciplined, work on time, take care of others 3. Extraversion – love to interact with people 4. Agreeableness – Kind, sympathetic, cooperative, considerate and warm 5. Neuroticism – tendency towards anxiety, self doubt, depression, shyness (Any four) (1/2 mark for correct explanation of each (any four) parameter)	U-2 Pg-33	(0.5x4)
9.	Sorting Data in ICT refers to the process of arranging data elements in a specific order such as ascending or descending based on pre-defined criterion.	U-3 Pg-58	(2)
10.	Environmental barriers (Any two):- 1. Lack of adequate resources or raw material 2. Non-availability of skilled labour 3. Lack of requisite machinery and infrastructure 4. Unavailability of monetary resources on time (any other correct answer also to be accepted)	U-4 Pg-92	2
11.	According to UNEP - United Nations Environment Program, green jobs or green collar jobs are works in agricultural, administrative, research and development, manufacturing and service activities that contribute substantially to preserving or restoring environment quality. (2 mark for correct answer)s	U-5 Pg-112	2
12.	(i) parseInt() : This is a built-in function used to convert a string into an integer. (ii) prompt() : Built-in function to take user input as string. (1 mark for each correct part)	CBSE BOOK UNIT-2 PAGE-31	2
13.	(i) By default, the sort() method sorts values as strings in alphabetical and ascending order. Because of this, when sorting numbers as strings, “25” is evaluated as bigger than “100” because the character “2” is bigger than “1” in terms of ASCII values. (ii) Positive Index = 0, Negative Index = 2 11 (1 mark for each correct part)	CBSE BOOK UNIT-2 PAGE-36,48	2
14.	The Internet of Things (IOT) refers to all objects or things embedded with electronics, software, sensors and network connectivity that enables these objects to collect and exchange data. Examples : (Any two) Smart Refrigerators, Smart TVs, or Autonomous Vehicles etc. (1 mark for definition, ½ mark for each correct example)	CBSE BOOK UNIT-1 PAGE-1,2	2

15.	Arrays are containers used to store multiple values of the same type The first element is accessed with an index of 0 (e.g.,myArray[0]). (1 mark for each correct part)	CBSE BOOK UNIT-2 PAGE-40	2
16.	Denial-of-Service (DoS) Attack : An attack aimed at disrupting the normal functioning of a website or server by overwhelming it with traffic, making it unavailable to legitimate users. Ransomware : A type of malware that prevents or limits users from accessing their system(either by locking the screen or encrypting files) until a ransom is paid. (1 mark for each correct part)	CBSE BOOK UNIT-4 PAGE-128	2
17.	(i) Backup and Recovery : The operating system provides mechanisms for backing up data and recovering it in case of system failures or errors. (ii) Device Management : The OS manages input/output devices (like printers and keyboards) by providing necessary drivers and interfaces to enable communication. (1 mark for each correct part)	CBSE BOOK UNIT-1 PAGE-5	2
18.	(i) Cloud computing refers to services provided over the Internet or the Cloud in terms of servers, storage, databases, networking, software, analytics etc. (ii) Benefits (Any two) • Helps to reach longer customer base with less efforts • One can create social media accounts for free and partner with email service provider for a cheaper price. • Gives both quantitative and qualitative information about your marketing • Gives opportunity to engage with customers on personal days such as birthdays and anniversaries. (1 mark for part-1) (2 marks for part-2 – (1 mark for each benefit))	CBSE BOOK UNIT-1 PAGE-8,10	1+2=3
19.	(i) Objects are the basic building blocks of JavaScript used to store and organise data, create reusable code and develop complex applications. An object contains properties (data values) and methods (functions that perform tasks). (ii) It will create a new object called myObject. (iii) Car.Shape = “SUV”; (1 mark for each correct part)	CBSE BOOK UNIT-2 PAGE-34,35	3
20.	(a) Graphic designing is the process of transforming any idea or content into a visually appealing, eye-catching form. It is commonly used for (any two or any other correct use): (i) Print, Television, or Social Media Advertising. (ii) Creating Logos and product packaging for companies or organizations. (iii) Websites.	CBSE BOOK UNIT-3 PAGE-65,66,78	2+1=3

	(b) Transitions can be applied to smoothen the flow of a video between scenes or clips. ((a) 1 mark for correct definition, ½ mark each for correct use) ((b) 1 mark for correct answer)		
21.	(a) <code>var newStr = str.replace("easy", "interesting");</code> (b) <code>var subStr = str.substring(0,10);</code> (c) <code>var len = str.length;</code> (d) <code>learn</code> (1 mark for each correct part)	CBSE BOOK UNIT-2 PAGE-37,38	4
22.	Steps to trim a video in Canva : • Add the video to the timeline and click on the video. • On the toolbar above the editor, click the scissors (trim) icon. The highlighted and greyed-out parts of the video will display above the editor. • Drag any of the sliders on the ends of the highlighted part of the video to shorten or lengthen it. • Click on Done to save your changes. (1 mark for each correct step)	CBSE BOOK UNIT-3 PAGE-76	4
23.	(i) Confidentiality : Ensuring that data is accessible only to authorized individuals or systems through measures like encryption and access controls. (ii) Integrity : Guaranteeing the accuracy, completeness and reliability of data throughout its lifecycle using techniques like checksums and digital signatures. (iii) Authorization : Granting appropriate access permissions to users based on their roles, responsibilities and levels of trust to control what actions they can perform. (iv) Encryption : Encoding data so it can only be decrypted and read by authorized parties with proper cryptographic keys, protecting data both in transit and at rest. (1 mark for each correct part)	CBSE BOOK UNIT-4 PAGE-116	4
24.	(i) Phishing (ii) Identity Theft (iii) (Any two) • Don't provide your email, contact number, credit card/debit card information on websites/apps you are not fully sure of. • Try to avoid opening websites which are not secure (without HTTPS). • Use strong, complex passwords so they are not possible to guess. • Use antivirus to keep the system free of malware. (iv) https://cybercrime.gov.in (1 mark for each correct part)	CBSE BOOK UNIT-4 PAGE-126, 128, 132	4
25.	Aman NEHA! 90 Vikas, Neha,Riya (1 mark for each correct line of output)	CBSE BOOK UNIT-2 PAGE-38,43	4

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