



COMPUTER SCIENCE SSC-I

Inclusive Scheme of Studies 2024 (1200 Marks)

SECTION – A (Marks 12)

Time allowed: 20 Minutes

Candidate Sign. _____

Invigilator Sign. _____

Answer Sheet No. _____

Version No.				
1	2	0	7	1

0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

ROLL NUMBER						

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Deleting/overwriting is not allowed.
Do not use lead pencil.

Fill the relevant bubble against each question according to curriculum:

Question	A	B	C	D	A	B	C	D
1. Which strategy explains how a product will reach customers?	Go-to-market strategy	Budget plan	Risk analysis	Product testing	☐	☐	☐	☐
2. Why is algorithmic thinking useful while solving a problem?	It removes the need for inputs	It provides a clear step-by-step solution	It focuses only on outputs	It avoids decision making	☐	☐	☐	☐
3. What does the DOM tree represent in an HTML document?	Program logic, steps and results	Visual design only	Structure of web page elements	Server configuration strategy	☐	☐	☐	☐
4. Which language is most suitable for creating static web pages?	HTML	PHP	SQL	Python	☐	☐	☐	☐
5. Which aspect of CSS can be changed using JavaScript?	Page content	HTML structure	Database records	Font size and color	☐	☐	☐	☐
6. Why is the CPU called the brain of the computer?	It stores data permanently	It displays output	It controls and processes instructions	It supplies power	☐	☐	☐	☐
7. Why is speech recognition considered an important area of AI?	It designs websites	It increases storage capacity	It stores audio files	It allows computers to understand spoken language	☐	☐	☐	☐
8. Which term refers to deceptive emails or messages used to steal personal information?	Hacking	Phishing	Shareware	Freeware	☐	☐	☐	☐
9. What is an entrepreneurial solution mainly designed to do?	Address a problem with a business idea	Increase exams	Reduce technology use and increase manual labor	Copy existing products	☐	☐	☐	☐
10. Why must inputs, processes, and outputs be identified in a problem?	To increase speed	To understand how a solution works	To reduce storage	To design graphics	☐	☐	☐	☐
11. Why are computer ethics important?	To increase speed	To store data	To design software	To guide responsible use	☐	☐	☐	☐
12. Why is categorical data different from numerical data?	It is measured in units	It always changes	It represents categories or labels	It is continuous	☐	☐	☐	☐

—1SA-I 26007-(D)—



COMPUTER SCIENCE SSC-I

Inclusive Scheme of Studies 2024 (1200 Marks)

Time allowed: 2:40 Hours

Total Marks Sections B and C: 48

SECTION – B (Marks 30)

Q. 2 Attempt the following parts.

(10 x 3 =30)

(i)	What is the role of the operating system in a computer system? Elaborate briefly.	03	OR	What is the importance of flowchart in solving a problem?	2+1
(ii)	How logical thinking helps in solving a computational problem? Explain briefly.	03	OR	Differentiate between a static and a dynamic website.	1.5 +1.5
(iii)	Highlight the significance of application software. Give one example.	2+1	OR	What is meant by spyware? Give one example.	2+1
(iv)	Briefly describe quantitative data. Give one example.	2+1	OR	A student performs calculations and logical comparisons in a program. Which part of the CPU carries out these operations? Explain briefly.	1+2
(v)	A news story spreads rapidly online without a reliable source. How can one identify whether it is fake news or credible?	03	OR	Compare Primary and Secondary data collection methods.	1.5 + 1.5
(vi)	Correct any three errors in the given HTML code: </html><head> </title>Heading</title> <head> <body> </h>Welcome to My Website</h/> <body> <html>	03	OR	Briefly elaborate two features of star topology. Also draw diagram.	2+1
(vii)	How Data Science differs from Data Analytics?	1.5 + 1.5	OR	Write down HTML code to display ordered list as follows: <u>Memory</u> 1. RAM 2. ROM	1+1 +1
(viii)	Briefly explain the importance of data types in JavaScript. Give one example.	2+1	OR	Why is the Internet called a network of networks? Explain briefly.	03
(ix)	Why is computational thinking important in computer science?	03	OR	Briefly explain one ethical issue related to the use of AI in society.	03
(x)	List and briefly explain any three stages of the design thinking process.	1x3	OR	What is meant by machine learning? Identify its two applications.	2+1

SECTION – C (Marks 18)

Note: Attempt the following questions.

(3x6=18)

Q.3	Compare Asynchronous Transmission and Synchronous Transmission modes. Draw diagrams.	3+3	OR	How is AI used in 'health care' and 'education'? Explain in detail.	3+3
Q.4	Draw a flowchart to find sum and product of five numbers.	06	OR	Write down a JavaScript code to display numbers from 0 to 9.	06
Q.5	Explain the importance of following in safe and responsible use of computers: a. Computer system updated b. Using a strong and unique passwords c. Backing up data	2x3	OR	What is Big data? Explain any two applications of Big data in detail.	2+4