



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	0	0	7	1

0	●	●	0	0
●	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
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 document outlines a business idea, its goals, and planning details?	Resume	Business plan	Invoice	Advertisement	☐	☐	☐	☐
2. Why is computational thinking important in computer science?	It increases typing speed	It helps break problems into manageable steps	It improves computer hardware	It replaces programming	☐	☐	☐	☐
3. Why is HTML used when creating a website?	To style web pages	To store data	To display text and images	To run programs	☐	☐	☐	☐
4. Which part of development handles the user interface of a website?	Back end	Server side	Database layer	Front end	☐	☐	☐	☐
5. Why are variables used in JavaScript?	To store values that can change	To design web pages	To create hyperlinks	To format text	☐	☐	☐	☐
6. Why is the ALU an important part of the CPU?	It performs arithmetic and logical operations	It manages memory	It controls input devices	It performs analogue linear operations	☐	☐	☐	☐
7. Why is cloud computing needed in modern computing?	To reduce screen size	To replace computers	To access data and services over the Internet	To increase keyboard speed	☐	☐	☐	☐
8. What is meant by fake news?	Verified information	Educational content	False or misleading information	Official announcements	☐	☐	☐	☐
9. What do Sustainable Development Goals (SDGs) represent?	Business profits	Personal goals	Marketing targets	Global development goals	☐	☐	☐	☐
10. How does logical thinking support problem solving?	By using trial and error and providing false results	By arranging steps in a correct sequence	By memorizing commands and repeating these	By designing interfaces	☐	☐	☐	☐
11. Why is software piracy considered illegal?	It violates ownership rights	It is outdated	It slows the working of computer	It limits access to the online data	☐	☐	☐	☐
12. Why is continuous data suitable for measurements like 'heights' of students?	It uses labels	It has fixed values	It is non-numeric	It can take any value in a range	☐	☐	☐	☐

—1SA-I 26007-(B)—



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 main function of the Arithmetic Logic Unit (ALU)? Explain briefly.	03	OR	What is meant by problem decomposition? Elaborate briefly.	03
(ii)	Why is computational thinking important in computer science? Write briefly.	03	OR	How CSS improves the appearance of a web page? Give an example.	2+1
(iii)	State two functions of an operating system.	1.5 + 1.5	OR	What is meant by phishing? Give one example.	2+1
(iv)	Write down two advantages of Big data.	1.5 + 1.5	OR	A computer is running slow while many programs are open. Which hardware component is mainly responsible for processing instruction? Also give reason.	1+2
(v)	Write one harmful effect of using Computing Innovation.	03	OR	How Data Science differs from Data Analytics?	1.5 + 1.5
(vi)	Correct any three errors in the given code of HTML. </html> </head><title>Main page<title> <head> </body> </u>Introduction to Computer </u> <body> <html>	1x3	OR	How packet switching transmits data over a computer network?	03
(vii)	Differentiate between dataset and database.	03	OR	Write down HTML code to apply headings from h1 to h6.	03
(viii)	Why are variables used in Javascript programs? Explain briefly. Give one example.	2+1	OR	Compare natural and artificial systems.	1.5 + 1.5
(ix)	Why identifying inputs, processes, and outputs is necessary?	1x3	OR	Write any three disadvantages of using Artificial Intelligence algorithm.	1x3
(x)	What is meant by design thinking? Also write down the names of five phases.	1.5 + 1.5	OR	Why is cloud computing needed for modern applications? Explain briefly.	03

SECTION – C (Marks 18)

Note: Attempt the following questions.

(3 x 6 = 18)

Q.3	Write down the difference between Half duplex mode and Full duplex mode with one example each. Draw diagrams.	3+3	OR	Briefly discuss the role of AI in 'speech recognition' and 'computer vision'.	3+3
Q.4	Draw a flowchart to find the largest of three unequal numbers.	06	OR	Write down a Javascript code to define two variables and calculate their sum. Also display the result.	06
Q.5	Explain any six benefits of computing innovation.	1x6	OR	What is meant by categorical (qualitative) data? Discuss its main types in detail. Illustrate your answer with examples.	2+4