



COMPUTER SCIENCE SSC-I

Inclusive Scheme of Studies 2024 (1200 Marks)

SECTION – A (Marks 12)

Time allowed: 20 Minutes

Candidate Sign. _____

Supervisor Sign. _____

Answer Sheet No. _____

Version No.				
1	9	0	7	1

0	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

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 stage of design thinking focuses on understanding users' needs?	Ideating	Empathizing	Prototyping	Testing	☐	☐	☐	☐
2. Why is algorithmic thinking useful while solving a problem?	It provides a step-by-step solution	It removes decision making	It focuses only on outputs	It avoids planning	☐	☐	☐	☐
3. Why should users protect personal data online?	To prevent misuse	To share faster	To reduce cost	To improve graphics	☐	☐	☐	☐
4. Which of the following is an example of secondary data collection methods?	Experiment	Observations	Interviews	Government record	☐	☐	☐	☐
5. How does a flowchart help in solving a problem?	It stores data	It executes the program	It visually shows the sequence of steps	It replaces algorithms and performs extra calculations	☐	☐	☐	☐
6. Why is identifying inputs, processes, and outputs important in a problem?	To reduce memory usage	To understand how a solution works	To speed up execution	To create diagrams for visualization of the program	☐	☐	☐	☐
7. Why are hyperlinks important in HTML documents?	They connect one page to another	They change page style	They store images	They run scripts	☐	☐	☐	☐
8. Web development is mainly concerned with:	Computer hardware	Managing networks	Installing software	Creating websites and web applications	☐	☐	☐	☐
9. Why are arrays useful in JavaScript?	To store one value only	To store multiple values in a single variable	To change page style and color	To link web pages	☐	☐	☐	☐
10. Why is a computer considered an artificial system?	It grows naturally	It exists in nature	It is man-made to perform tasks	It works without instructions	☐	☐	☐	☐
11. Why is Artificial Intelligence (AI) useful in solving real-world problems?	It stores large files	It improves hardware speed	It replaces the Internet	It enables machines to make intelligent decisions	☐	☐	☐	☐
12. Which issue arises due to the misuse of personal data online?	Increased speed	Improved usability	Privacy violation	Better communication	☐	☐	☐	☐

—1SA-I 26007-(M)—



COMPUTER SCIENCE SSC-I

Inclusive Scheme of Studies 2024 (1200 Marks)

56

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)	Write down the output of the following Javascript code: <script type= "text / javascript"> var a, b, reward; reward = 5555; a= reward %10; b= reward / 10; document.write (a, "....", b); </script>	03	OR	Why is packet switching efficient for data transmission? Explain briefly.	03
(ii)	How logical thinking helps in solving a computing problem? Explain briefly.	03	OR	What is cloud computing? Why is it needed in modern computing environment?	2+1
(iii)	Enlist any six Sustainable Development Goals (SDGs).	03	OR	How does machine learning help computers solve problems? Give examples of its applications.	2+1
(iv)	What is meant by output device? Write names of any their output devices.	1.5 + 1.5	OR	What is meant by software piracy? Give one example.	2+1
(v)	What is concept map? How does it represent knowledge?	2+1	OR	Give one use of hyperlinks in HTML documents. Also write down the syntax for defining a link.	1+2
(vi)	How is data transferred in synchronous transmission? Also draw diagram.	2+1	OR	Write down the purpose of any two flowchart symbols.	1.5 + 1.5
(vii)	Briefly describe Volume, Velocity and Variety in Big data.	1x3	OR	How Software engineering differs from Hardware engineering?	03
(viii)	A user receives an email asking for bank details with an urgent warning. Identify the type of cyber threat involved. Justify your answer.	1+2	OR	How is data science helpful in solving business problem?	03
(ix)	Briefly explain the role of front-end development in a web project.	03	OR	Why is the Internet considered a global network of networks?	03
(x)	Briefly discuss primary data collection methods. Also identify any two examples.	2+1	OR	Write HTML code to display unordered list as follows: <u>Software</u> 1. System Software 2. Application Software	03

SECTION – C (Marks 18)

Note: Attempt the following questions.

(3x6=18)

Q.3	Explain the importance of following in safe and responsible use of computers: a. Backing up Data b. Use of secure Wi-Fi c. Privacy settings	2x3	OR	What is Big data? Write any four benefits of Big data.	2+4
Q.4	How a star topology differs from a bus topology? Explain. Also draw the diagrams.	3+3	OR	How is Artificial Intelligence (AI) used in 'education' and 'gaming' fields?	3+3
Q.5	For an online order system, identify the inputs, processes, and outputs involved.	2+2 +2	OR	Write down the Javascript code to display numbers from 10 to 1.	06