

<b>Course Title</b>	Computer Fundamentals	<b>Course Code</b>	CSE112	Section	
<b>Marks</b>	15	<b>Quiz No:</b>	03	<b>Time</b>	50 minutes
<b>Student ID</b>		<b>Student Name</b>			

Q1	<p>You are developing a system for a local library to manage the book-borrowing process. The library allows users to borrow books for a specific duration (e.g., 14 days). The system should perform the following steps:</p> <ol style="list-style-type: none"> <li>1. Ask the user to input the book title and the days they want to borrow it.</li> <li>2. Check if the number of days entered is valid (i.e., greater than 0 but less than or equal to 30).</li> <li>3. If the number of days is valid: <ul style="list-style-type: none"> <li>○ Display a message confirming the book borrowing along with the borrowing period.</li> <li>○ Ask if the user wants to borrow another book.</li> </ul> </li> <li>4. If the number of days is not valid: <ul style="list-style-type: none"> <li>○ Display an error message and ask the user to again enter the number of days.</li> </ul> </li> <li>5. End the process when the user chooses not to borrow another book.</li> </ol> <p>Create a flowchart that outlines the steps of the book borrowing process as described in the scenario.</p>	6
Q2	<p>You are asked to write an algorithm and corresponding pseudocode to simulate a basic ATM withdrawal system. The system should allow a user to input their PIN, check account balance, and withdraw money (only if sufficient balance exists). Now critically analyze and answer the following:</p> <ol style="list-style-type: none"> <li>1. What are the key steps you would include in your algorithm to ensure both correctness and user security?</li> <li>2. How would you design the pseudocode to handle incorrect PIN entries (with a limit of 3 attempts) and insufficient balance?</li> <li>3. Could your pseudocode lead to any logical or runtime errors? Justify your answer.</li> </ol>	3 3 3