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Midterm Exam Questions

- 1. Explain the function of the bus in a computer system.
- 2. Describe a scenario where the bus speed could become a bottleneck in a computer system. What are some possible solutions?
- 3. Describe the Von Neumann architecture and explain how it influences modern computer systems.
- 4. What is the role of libraries in software development?
- 5. Compare and contrast the functions of system software and application software, providing examples of each.
- 6. You are tasked with installing a new operating system on a computer. List the steps you would take to ensure the operating system is installed correctly.
- 7. You have a dataset in Excel containing sales data for the past year. Describe the steps you would take to create a pivot table that shows total sales per month.
- 8. Explain the concept of the Turing machine and its significance in computer science.
- 9. A computer is running slowly even though the CPU usage is low. What other hardware components could be causing the issue, and how would you diagnose them?
- 10. Describe a situation where understanding the Neumann principle would be essential for solving a computer system problem.
- 11. What is the purpose of using conditional formatting in Excel?
- 12. Given a spreadsheet, perform the following tasks:
 - a) Create a formula to calculate the total sales.
 - b) Use VLOOKUP to find the sales amount for a specific product.
 - c) Apply conditional formatting to highlight all sales figures above a certain threshold.

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