

1. What are logic gates, and what role do they play in the processing of information by a computer? (5%)
2. Identify the major components with a typical computer system unit and their respective functions. (10%)
3. How do RISC chips differ from traditional microprocessors? (5%)
4. What are CD-ROMs? What is disk access time, and what are the factors that affect it? (10%)
5. Describe the major components of a multimedia system. (5%)
6. Describe the differences between (a) asynchronous and synchronous transmission and (b) simplex, half-duplex, and full-duplex transmission. (12%)
7. Discuss the significance of EDI. (5%)
8. Describe the interrelationship among hardware, systems software, applications software, and the user. (5%)
9. What is the difference between a proprietary operating system and a portable operating system? (5%)
10. Compare MS-DOS, OS/2, Windows, Windows NT, Windows 95, and UNIX. (8%)
11. What are the advantages of a DBMS compared to a file manager?(5%)
12. What are CASE tools? (5%)
13. What are the advantages and disadvantages of object-oriented programming? How does OOP differ from traditional programming languages? (10%)
14. What are the key factors to consider when trying to determine which programming language to choose for a particular problem? (5%)
15. What is a neural network and what are some of its limitations? (5%)