

Selected Questions:

1. What is the difference between a stack and a queue in data structures?
2. Explain the concept of Big O notation and provide examples of different time complexities.
3. What are the key differences between TCP and UDP protocols?
4. What is the purpose of an operating system and what are its primary functions?
5. Describe the difference between relational and non-relational databases.
6. What is the difference between symmetric and asymmetric encryption?
7. Explain the concept of Object-Oriented Programming (OOP) and list its main principles.
8. What are the different types of software testing and why is testing important?
9. How does a hash table work and why is it an important data structure?
10. Explain the concept of Virtual Memory and how it improves the performance of an operating system.