

Question Paper

1. Explain the working of a stack data structure with an example.
2. Describe the differences between TCP and UDP.
3. What are the advantages of using a NoSQL database?
4. Explain the concept of dynamic programming with an example.
5. Describe the working of a binary search tree.
6. What are the key differences between HTTP and HTTPS?
7. Explain how garbage collection works in Java.
8. Describe the role of indexes in a database.
9. What is the significance of Big O notation?
10. Explain the concept of multithreading in operating systems.
11. Describe the working of a hash table.
12. What are the differences between symmetric and asymmetric encryption?
13. Explain the use of recursion with an example.
14. What are the key differences between compiled and interpreted languages?
15. Describe the various types of machine learning algorithms.