

## Question Paper

1. What is the significance of data structures in programming?
2. Explain the concept of Object-Oriented Programming with examples.
3. What are the key differences between HTTP and HTTPS?
4. Describe the working of a relational database management system.
5. What are the different types of machine learning?
6. What is recursion? Provide an example.
7. Explain the concept of Big O notation.
8. Differentiate between stack and queue data structures.
9. How does a compiler differ from an interpreter?
10. Describe the primary functions of an operating system.
11. What are the advantages of cloud computing?
12. Explain the concept of multithreading in programming.
13. What is the role of an API in software development.
14. What is the difference between TCP and UDP.
15. Explain the concept of software development life cycle (SDLC).