1) In the context of databases what is the purpose of the ’JOIN’ operation?
    a. Combine rows from two or more tables
    b. Insert a new row
    c. Update existing records
    d. Delete records
2) What is the function of a ’firewall’ in computer security?
    a. Monitor and control incoming and outgoing network traffic
    b. Detect and remove viruses
    c. Encrypt files
    d. Manage user access permissions
3) What is the purpose of the ’grep’ command in Unix/Linux?
    a. Search text patterns in files
    b. Copy files
    c. Delete files
    d. Create directories
4) What is the purpose of the ’grep’ command in Unix/Linux?
    a. Search text patterns in files
    b. Copy files
    c. Delete files
    d. Create directories
5) What is the time complexity of the quicksort algorithm in the average case?
    a. O(n log n)
    b. O(n^2)
    c. O(n)
    d. O(log n)
6) What is the purpose of the ’UDP’ (User Datagram Protocol) in networking?
    a. A connectionless protocol for fast data transmission
    b. A secure data transfer protocol
    c. A protocol for email communication
    d. A protocol for file sharing
7) What does the acronym ’SQL’ stand for?
    a. Structured Query Language
    b. System Query Language
    c. Sequential Query Language
    d. Structured Question Language

8) What is the difference between ’stack’ and ’heap’ memory allocation?

a. Stack memory is used for local variables and function call management while heap memory is us

b. Heap memory is faster than stack memory

c. Stack memory is used for dynamic memory allocation while heap memory is used for local variab

d. Heap memory is more secure than stack memory

9) What is a ’buffer overflow’ in computer security?

a. When a program writes more data to a block of memory than it was allocated

b. A type of malware

c. A denial-of-service attack

d. A form of encryption

10) Which programming language was created by Microsoft?

a. C#

b. Java

c. Python

d. Ruby