

- 1) In computer networking what does the term 'DNS' stand for?
 - a. Domain Name System
 - b. Digital Network Service
 - c. Dynamic Naming System
 - d. Data Network Security
- 2) 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
- 3) Which encryption algorithm is commonly used for securing internet communication (HTTPS)?
 - a. TLS/SSL
 - b. AES
 - c. RSA
 - d. MD5
- 4) 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
- 5) 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
- 6) What is 'Moore's Law'?
 - a. The observation that the number of transistors on a microchip doubles approximately every two years
 - b. A law of physics
 - c. A principle of algorithm design
 - d. A type of programming language
- 7) What is the concept of 'polymorphism' in object-oriented programming?
 - a. Ability of a class to take multiple forms
 - b. Inheritance of multiple classes
 - c. Ability to override a method
 - d. Ability to hide a method

8) Which programming language was created by Microsoft?

- a. C#
- b. Java
- c. Python
- d. Ruby

9) 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. $O(\log n)$

10) What does the acronym 'SQL' stand for?

- a. Structured Query Language
- b. System Query Language
- c. Sequential Query Language
- d. Structured Question Language