

Sample Quiz: Fundamentals of Computer Science

Name: _____ Section: _____ Date: _____

Instructions:

Instructions: You have 20 minutes. Choose the best answer for each question. Shade or circle only one letter unless specified. No calculators. No phones.

Multiple Choice Questions

1. Which data structure operates on a First-In, First-Out (FIFO) basis?

- A) Stack
- B) Queue
- C) Tree
- D) Graph

2. What is the time complexity of binary search on a sorted array?

- A) $O(n)$
- B) $O(\log n)$
- C) $O(n \log n)$
- D) $O(1)$

3. In Big-O notation, which of the following grows the fastest?

- A) $O(n)$
- B) $O(n \log n)$
- C) $O(2^n)$
- D) $O(\log n)$

4. Which layer of the OSI model is responsible for routing packets?

- A) Transport
- B) Network
- C) Data Link
- D) Session

5. Which keyword is used to create a function in JavaScript?

- A) func
- B) function
- C) def
- D) lambda

Multiple Choice Questions

6. What does SQL stand for?

- A) Simple Query Language
- B) Structured Query Language
- C) Sequential Query Language
- D) Server Query Language

7. Which of the following is NOT an object-oriented programming concept?

- A) Encapsulation
- B) Polymorphism
- C) Inheritance
- D) Compilation

8. Which HTTP method is typically used to update an existing resource?

- A) GET
- B) POST
- C) PUT/PATCH
- D) DELETE

9. Which file format is commonly used for exchanging data between web services?

- A) JPG
- B) WAV
- C) JSON
- D) MP3

10. Which of the following is a version control system?

- A) Docker
- B) Git
- C) Nginx
- D) Jenkins

Answer Key

1. B

2. B

3. C

4. B

5. B

6. B

7. D

8. C

9. C

10. B