

1. Which data structure uses FIFO (First In First Out)?

- a) Stack
- b) Queue
- c) Tree
- d) Graph

Answer: b) Queue

2. Which of the following is NOT a valid data type in C?

- a) int
- b) float
- c) real
- d) char

Answer: c) real

3. What is the time complexity of binary search?

- a) $O(n)$
- b) $O(n^2)$
- c) $O(\log n)$
- d) $O(1)$

Answer: c) $O(\log n)$

4. Which SQL command is used to remove all records but keeps the structure of the table?

- a) DROP
- b) DELETE
- c) TRUNCATE
- d) REMOVE

Answer: c) TRUNCATE

5. Which bitwise operator is used to invert all bits?

- a) $\&$
- b) $|$
- c) $\wedge$
- d) $\sim$

Answer: d) $\sim$

6. In C programming, which header file is required for `printf()`?

- a) `stdlib.h`
- b) `conio.h`
- c) `stdio.h`
- d) `string.h`

Answer: c) `stdio.h`

7. Which of the following is an example of a non-linear data structure?

- a) Array
- b) Linked List
- c) Tree
- d) Stack

Answer: c) Tree

8. The primary key in a table:

- a) Can have duplicate values
- b) Must be unique
- c) Can be NULL
- d) Is used only in SELECT queries

Answer: b) Must be unique

9. Which logic gate gives output 1 only when both inputs are 1?

- a) OR
- b) NOT
- c) AND
- d) XOR

Answer: c) AND

10. Which of the following is the correct postfix expression for the infix: $(A + B) * C$?

- a) $AB + C*$
- b) $ABC+*$
- c) $AB + C$
- d) $A + BC$

Answer: a) $AB + C*$

11. The default base of the number system in C programming is:

- a) Binary
- b) Octal
- c) Decimal
- d) Hexadecimal

Answer: c) Decimal

12. Which scheduling algorithm uses time slices?

- a) First-Come-First-Serve
- b) Shortest Job First
- c) Round Robin
- d) Priority Scheduling

Answer: c) Round Robin

