- 1. Which of the following is a decision control structure?
- a) while loop
- b) for loop
- c) if statement
- d) do-while loop

Answer: c) if statement

Explanation: The if statement is used for decision-making in programming, allowing the execution of a block of code based on a condition.

- 2. What is the purpose of using logical operators in programming?
- a) To perform mathematical calculations
- b) To compare two variables
- c) To combine multiple conditions
- d) To assign values to variables

Answer: c) To combine multiple conditions

Explanation: Logical operators (such as AND, OR, NOT) are used to combine multiple conditions to form complex conditional expressions in programming.

- 3. Which operator is used to check if two values are equal in C programming?
- a) ==
- b) =
- c) <= d) >=

Answer: a) ==

Explanation: The == operator is used to check if two values are equal in C programming. It

returns true if the values are equal, otherwise false.

- 4. What is the purpose of the increment (++) and decrement (-) operators?
- a) To multiply and divide values
- b) To add or subtract 1 from a variable
- c) To perform bitwise operations
- d) To check for equality

Answer: b) To add or subtract 1 from a variable

Explanation: The increment (++) operator adds 1 to the variable, while the decrement (-) operator subtracts 1 from the variable.

- 5. Which loop executes the code block at least once, even if the condition is false initially?
- a) for loop
- b) while loop
- c) do-while loop
- d) odd loop

Answer: c) do-while loop

Explanation: The do-while loop executes the code block once and then checks the condition. If the condition is true, the loop continues to execute.

- 6. What is the purpose of the break statement in programming?
- a) To terminate the loop and exit the program
- b) To skip the current iteration of the loop
- c) To exit the switch statement and continue with the next code block
- d) To increment the loop counter

Answer: a) To terminate the loop and exit the program

Explanation: The break statement is used to prematurely terminate a loop and exit the loop's block of code.

- 7. Which operator is used to access the address of a variable in C programming?
- a) &
- b) \*
- c) .
- d) >

Answer: a) &

Explanation: The & operator is used to access the address of a variable in C programming, commonly used with pointers.

- 8. What does the sizeof operator return in C programming?
- a) Size of a variable in bytes
- b) Size of a function in bytes
- c) Size of a loop iteration
- d) Size of a conditional statement

Answer: a) Size of a variable in bytes

Explanation: The size of operator returns the size of a variable or data type in bytes.

- 9. Which loop structure allows for the execution of a block of code a specific number of times?
- a) while loop
- b) for loop

- c) do-while loop
- d) odd loop

Answer: b) for loop

Explanation: The for loop in programming allows for the execution of a block of code a specific number of times, controlled by a loop counter.

- 10. Which operator is used to perform bitwise AND operation in C programming?
- a) &&
- b) ||
- c) &
- d) |

Answer: c) &

Explanation: The & operator in C programming is used to perform bitwise AND operation between two operands.

- 11. What does the continue statement do in a loop?
- a) Exits the loop
- b) Skips the remaining code in the loop and proceeds to the next iteration
- c) Breaks the loop and exits the program
- d) Resets the loop counter

Answer: b) Skips the remaining code in the loop and proceeds to the next iteration Explanation: The continue statement is used to skip the remaining code in the current iteration of a loop and proceed to the next iteration.

12. Which control structure is used to select one of many code blocks to execute based on a

specified condition?

- a) for loop
- b) switch statement
- c) if-else statement
- d) while loop

Answer: b) switch statement

Explanation: The switch statement is used to select one of many code blocks to execute based on the value of a variable or expression.

- 13. Which loop structure is best suited for situations where the number of iterations is not known beforehand?
- a) for loop
- b) while loop
- c) do-while loop
- d) odd loop

Answer: b) while loop

Explanation: The while loop is best suited for situations where the number of iterations is not known beforehand, as it continues to execute until the condition becomes false.

- 14. What is the purpose of the goto statement in programming?
- a) To exit the loop
- b) To jump to a specified label within the code
- c) To increment the loop counter
- d) To perform bitwise operations

Answer: b) To jump to a specified label within the code

Explanation: The goto statement is used to transfer control to a specified label within the code, which can be located anywhere in the program.

- 15. Which special operator is used to access members of a structure or union in C programming?
- a) \*
- b) .
- c) &
- d) >

Answer: b) .

Explanation: The . operator is used to access members of a structure or union in C programming, also known as the dot operator.