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# **C++ Institute**

## **CLP-12-01**

**C++ Institute CLP - C Certified Professional Programmer**



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# Latest Version: 6.0

## Question: 1

You need to create a function that logs messages of varying lengths and types. Which feature would you use?

Response:

- A. Variable argument lists with <stdarg.h>
- B. Fixed arguments
- C. Macros with #define
- D. Dynamic memory allocation

**Answer: A**

## Question: 2

You need to implement a loop where a condition is updated by an external signal. What should you ensure for the loop condition variable?

Response:

- A. Declare it as volatile
- B. Use const to protect it
- C. Declare it as a global variable
- D. Optimize it for faster execution

**Answer: A**

## Question: 3

During a financial computation, you need consistent rounding. Which library provides correct rounding with arbitrary precision?

Response:

- A. GMP
- B. MPFR
- C. MPIR
- D. IEEE-754 functions

**Answer: B**

## Question: 4

What is the result of a division by zero for a floating-point type in IEEE-754?

Response:

- A. Undefined behavior
- B. NaN
- C. Infinity (Inf)
- D. Zero (0)

**Answer: C**

## Question: 5

A program needs to create a new file for writing, truncating its contents if it already exists. Which flags should be used with open()?

Response:

- A. O\_WRONLY | O\_CREAT
- B. O\_WRONLY | O\_CREAT | O\_TRUNC
- C. O\_RDWR | O\_CREAT
- D. O\_RDONLY | O\_APPEND

**Answer: B**

## Question: 6

Which elements are part of the C89 standard?

Response:

- A. Function prototypes
- B. Standard library support for I/O
- C. Support for the long long data type
- D. Comments using //
- E. Use of const and volatile

**Answer: A,B,E**

## Question: 7

Which modes can be combined using bitwise OR for the open() system call?

Response:

- A. O\_RDONLY
- B. O\_WRONLY
- C. O\_CREAT
- D. O\_TRUNC
- E. O\_APPEND

**Answer: A,C,D,E**

## Question: 8

What are valid use cases for memcpy()?

Response:

- A. Copying memory blocks
- B. Duplicating strings
- C. Overlapping memory regions
- D. Allocating aligned memory
- E. Moving memory between regions

**Answer: A,E**

## Question: 9

Select the valid arguments for the stat() system call.

Response:

- A. File path
- B. File descriptor
- C. struct stat pointer
- D. Buffer length
- E. File access mode

**Answer: A,C**

## Question: 10

A server needs to handle multiple incoming client connections concurrently. Which mechanism should be used?

Response:

- A. Threads for each client connection
- B. Non-blocking sockets
- C. Multiplexing with select() or poll()
- D. All of the above

**Answer: D**

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