Operating System Quiz (24-02-2026)

1. Name *

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2. Class Roll No: *

   45

3. A system call is used to:

   ○ a) Access hardware directly

   ● b) Request service from the kernel

   ○ c) Compile a program

   ○ d) Switch between threads

4. Which of the following is a process control system call in Unix?

   ○ a) open()

   ○ b) read()

   ● c) fork()

   ○ d) printf()

5. What is the return value of fork() in the parent process?

   ○ a) 0

   ○ b) Child PID

   ○ c) -1

   ● d) Parent PID

6. After a successful fork(), the child process:

   ○ a) Shares the same memory space

   ● b) Has a separate copy of the parent's memory

○ c) Replaces the parent

○ d) Stops execution

7. Which system call is used to replace the current process image? 🔊

○ a) wait()

○ b) exit()

◉ c) exec()

○ d) fork()

8. Which mode does the CPU switch to during a system call? 🔊

○ a) User mode

◉ b) Kernel mode

○ c) Supervisor mode only for interrupts

○ d) Thread mode

9. Which system call is used by a parent to wait for child termination? 🔊

○ a) exit()

◉ b) wait()

○ c) kill()

○ d) signal()

10. The kernel of an operating system is responsible for: 🔊

○ a) Compiling programs

◉ b) Managing system resources

○ c) Designing user interfaces

○ d) Writing application software

11. A monolithic kernel: 🔊

○ a) Runs each service in user space

○ b) Has minimal functionality

◉ c) Includes all services in kernel space

○ d) Does not support system calls

12. Which of the following OS uses a monolithic kernel?

◉ a) Linux

○ b) MINIX

○ c) QNX

○ d) Symbian

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