QUIZIZZ

NAME : _____

CLASS : _____

CSE316_Quiz05
11 Questions

DATE : _____

1. **Which of the following information is stored in a Process Control Block (PCB)?**

   A The process's priority

   B The process's ID

   C All of the above

   D The process's physical address

2. What is the role of Instruction Register during process execution?

   A It stores the address of the next instruction to be executed

   B It stores the data being processed

   C It stores the result of the computation

   D It stores the instruction currently being executed

3. **What is the purpose of the "Blocked" (or "Waiting") state in the process lifecycle?**

   A The process is being terminated.

   B The process is currently executing its instructions.

   C The process is waiting for an external event to occur.

   D The process has finished its execution.

4. **Which of the following is NOT a valid process state in most operating systems?**

   A Terminated

   B Running

   C Waiting

   D Queued

5. **In a multitasking operating system, which state does a process enter after it has finished its execution?**

   A Blocked.

   B Terminated.

   C Ready.

   D Running.

6. **Which component of a PCB contains information about the current status of the CPU registers and program counter for a process?**

   A Process ID.

   B Stack Pointer.

   C CPU Scheduler.

   D Context Data.

7. **In a multitasking operating system, what does the term "context switch" refer to?**

A Swapping a process's code with another process's code.

B Switching the CPU from executing one process to executing another.

C Changing the state of a process from "Blocked" to "Ready."

D Changing the process's priority in the system.

8. **What is a Process Control Block (PCB)?** a) A printed circuit board used in computers.

A A data structure used by the operating system to manage information about a process.

B A piece of hardware that manages peripheral devices.

C A component responsible for connecting processes to the network.

D A printed circuit board used in computers.

9. **In a multitasking operating system, when a process is in the "Ready" state in the process lifecycle. What does it mean?**

A The process is currently running on the CPU.

B The process is waiting to be assigned to a CPU.

C The process is waiting for a specific event to occur.

D The process has finished its execution.

10. **Which of the following information is typically stored in a PCB?**

A The source code of the process.

B The process's execution speed.

C The size of the process's executable file.

D Process state, program counter, CPU registers, and process priority.

11. **What does the program counter (PC) within a PCB indicate?**

A The process's position within the system queue.

B The address of the next instruction to be executed for the process.

C The total time the process has been running.

D The process's current execution state.

Answer Key

1. c	2. d	3. c	4. d
5. b	6. d	7. b	8. a
9. b	10. d	11. b	