

## CSPB 3753 - Fall 2024 - Knox - Operating Systems

[Dashboard](#) / [My courses](#) / [2247:CSPB 3753](#) / [2 September - 8 September](#) / [Quiz on Module 2](#)

**Started on** Monday, 9 September 2024, 3:35 PM

**State** Finished

**Completed on** Monday, 9 September 2024, 3:39 PM

**Time taken** 3 mins 38 secs

**Grade** 10 out of 10 (100%)

Question **1**

Correct

Mark 2 out of 2

Every process in an OS is represented by:

Select one:

- ☐ a. a process handle to shared memory
- ☐ b. a process scheduler
- ☒ c. a process control block
- ☐ d. a program manager



Your answer is correct.

Question **2**

Correct

Mark 1 out of 1

What is a context switch?

Select one:

- ☐ a. switching the PC register to another address
- ☐ b. interrupting the CPU to process a signal
- ☐ c. moving the mode bit from 0 to 1
- ☐ d. moving the process from one device to another
- ☒ e. switching the active PCB from one process to another



Your answer is correct.

Question **3**

Correct

Mark 1 out of 1

What does it mean to be CPU bound?

Select one:

- ☐ a. process is only able to run on a single CPU system
- ☐ b. process bounds are with one CPU's memory
- ☒ c. the process infrequently makes I/O requests
- ☐ d. the process make frequent I/O requests



Your answer is correct.

Question **4**

Correct

Mark 1 out of 1

In the parent process, the `fork()` command should return

Select one:

- ☐ a. value of -1
- ☒ b. PID of child
- ☐ c. value of 0
- ☐ d. PID of parent



Your answer is correct.

Question **5**

Correct

Mark 1 out of 1

What is the system call to get the return value from a terminating process?

Select one:

- ☐ a. `exec(...)`
- ☒ b. `wait(...)`
- ☐ c. `exit(...)`
- ☐ d. `terminate(...)`



Your answer is correct.

Question **6**

Correct

Mark 2 out of 2

If there is only one process running at the beginning, how many processes are at the end?

```
. . .  
fork();  
fork();  
fork();  
. . .
```

Select one:

- ☐ a. 2
- ☐ b. 3
- ☐ c. 4
- ☒ d. 8



Your answer is correct.

Question **7**

Correct

Mark 2 out of 2

Describe the most likely output to be printed by the following code:

```
. . .  
id = fork();  
if (id == 0) {  
    exec(...);  
    printf("started process %d\n", id);  
}  
. . .
```

Select one:

- ☐ a. 0 because the child id is 0
- ☒ b. Nothing, as the print is not executed
- ☐ c. Return value from the exec(...) call
- ☐ d. Process id of the child



Your answer is correct.