Week 3

1) All processor designs include a register or set of registers, often known as the program status word, which contains status information.

**True**

2) "The process was placed in a suspended state by an agent; either itself, a parent process, or the OS, for the purpose of preventing its execution," is a characteristic of a \_\_\_\_\_\_\_\_\_ process.

a. blocked

b. ready

c. swapped

**d. Suspended**

3) A \_\_\_\_\_\_\_\_\_\_ is a unit of activity characterized by the execution of a sequence of instructions, a current state, and an associated set of system resources.

a. kernel

b. state

**c. process**

d. Identifier

4) A process that is not in main memory is immediately available for execution, regardless of whether or not it is awaiting an event.

**False**

5) A process is in the \_\_\_\_\_\_\_\_\_ state when it is in main memory and awaiting an event.

a. Ready

b. Ready/Suspend

**c. Blocked**

d. Blocked/Suspend

6) When a process is in the \_\_\_\_\_\_\_\_\_ state it is in secondary memory but is available for execution as soon as it is loaded into main memory.

a. Ready

**b. Ready/Suspend**

c. Blocked

d. Blocked/Suspend

7) The OS must maintain \_\_\_\_\_\_\_\_\_\_ tables to manage processes.

a. file

b. I/O

c. memory

**d. Process**

8) The \_\_\_\_\_\_\_\_\_ is the less-privileged mode.

a. system mode

b. control mode

**c. user mode**

d. kernel mode

9) The processor itself provides only limited support for multiprogramming, and \_\_\_\_\_\_\_\_\_\_ is needed to

manage the sharing of the processor and other resources by multiple applications at the same time.

a. Data

b. hardware

**c. software**

d. Memory

10) The process control block is the key tool that enables the OS to support multiple processes and to provide for multiprocessing.

**True**

11) When one process spawns another, the spawned process is referred to as the \_\_\_\_\_\_\_\_\_\_ .

a. stack process

b. parent process

**c. child process**

d. trap process

12) It is the principal responsibility of the \_\_\_\_\_\_\_\_\_\_ to control the execution of processes.

**a. OS**

b. memory

c. process control block

d. Dispatcher

13) \_\_\_\_\_\_\_\_\_\_ involves moving part or all of a process from main memory to disk.

a. Suspending

b. Blocking

**c. Swapping**

d. Relocating

14) The principal function of the OS is to create, manage, and terminate processes.

**True**

15) We can characterize the behavior of an individual process by listing the sequence of instructions, referred to as a \_\_\_\_\_\_\_\_\_\_, that executes for that process.

**a. trace**

b. priority

c. state

d. process block

16) The collection of program, data, stack, and attributes is referred to as the \_\_\_\_\_\_\_\_\_ .

a. process structure

**b. process image**

c. process location

d. process control block