Quiz 2

CSE 410

Summer 2018

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 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.

**Software or OS**

1. A(n) \_\_\_\_\_\_\_\_\_\_ is a unit of activity characterized by the execution of a sequence of instructions, a current

state, and an associated set of system resources.

**Process**

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

**OS**

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

**Child**

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

**Suspending a process / Swapping**

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.

**Suspended/Ready state or Ready/Suspend state**

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

**Blocked state**

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

**Process**

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

**Process Image**

10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tables are used to keep track of both main (real) and secondary (virtual) memory.

**Memory**

11) The process control block information can be grouped into three general categories: process

identification, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and process control information.

**Process State Information**

12) A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the maximum amount of time that a process can execute before being interrupted.

**Quantum or Time Slice**

13) When a process is not running, the processor status information is stored in the \_\_\_\_\_\_\_\_\_\_\_\_ context area.

**Register**

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

**Terminate**

15) It is necessary to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the activities of various threads so they do not interfere

with each other or corrupt data structures.

**Synchronize**

16) The basic form of communication between processes or threads in a microkernel

operating system is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

**Messages**

17) In a multithreaded environment, a \_\_\_\_\_\_\_\_\_\_ is defined as the unit of resource allocation and

a unit of protection.

**Process**

18) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ refers to the ability of an OS to support multiple, concurrent paths of

execution within a single process.

**Multithreading**

19) A \_\_\_\_\_\_\_\_\_\_ is a dispatchable unit of work that executes sequentially and is interruptible

so that the processor can turn to another thread.

**Thread**

20) A \_\_\_\_\_\_\_\_\_\_ is an entity corresponding to a user job or application that owns resources

such as memory and open files.

**Process**