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Operating Systems
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Example Test: Lesson 1

Reply to the following questions:

1. Which of the following is true? ____ (1 point)
 - a. Hardware is part of the Operating System
 - b. Only RAM is part of the Operating System
 - c. Only CPU is part of the Operating System
 - d. Device drivers are part of the Operating System

2. Which of the following is true? ____ (1 point)
 - a. Operating Systems were invented in the 1900s.
 - b. Operating Systems were invented in the 1930s.
 - c. Operating Systems were invented in the 1950s.
 - d. Operating Systems were invented in the 1980s.

3. What is the correct definition? ____ (1 point)
 - a. OS deal with resource management
 - b. OS are resource consumers
 - c. OS do not handle resources at all
 - d. OS are not related to resources since these are handled by hardware

4. Which of the following is true? ____ (1 point)
 - a. The first OSs were multiprogramming
 - b. The first OSs could execute multiple programs simultaneously
 - c. The first OSs were written in C++
 - d. The first OSs were written in C
 - e. The first OSs were written in machine language

5. Which of the following are true? ____ (1 point)
 - a. DEC-PDP was the first OS ever
 - b. DEC-PDP was not an OS

- c. DEC-PDP was the name of the company that invented the first OS
- d. DEC-PDP was the first machine to run an operating system of 3rd generation

6. Which of the following is true? ____ (1 point)
- a. IBM released the first OS for Personal computers
 - b. IBM designed and implemented DOS
 - c. IBM implemented Windows
 - d. IBM and Microsoft implemented together DOS

7. Which of the following is true? ____ (1 point)
- a. DOS was the first OS to run on disk
 - b. Windows was the first OS to run on disk
 - c. CP/M was the first OS to run on disk
 - d. No OS runs from disk

8. Which of the following is true? ____ (1 point)
- a. DOS/Basic was a new OS
 - b. DOS/Basic was a package sold to IBM
 - c. DOS/Basic was a novel computer
 - d. DOS/Basic was the company of B. Gates

9. Briefly describe the following (max three rows): ____ (2 points)

Mainframe operating systems

Server operating systems

Multiprocessor operating systems

Personal computer operating systems

Real-time operating systems

Embedded operating systems

Smart card operating systems

10. Which of the following is true? ____ (1 point)
- a. Bus stands for Basic Universal System
 - b. Bus stands for Basic Unique Solution
 - c. Bus is a computer device
 - d. Bus is just the communication channel in a computer architecture

11. Which of the following is true? ____ (1 point)
- a. Interrupts are user programs
 - b. Interrupts are not generated by hardware

- c. Interrupts are only software
 - d. Interrupts drive the OS behavior
12. Which of the following is true? ____ (1 point)
- a. DMA means the main memory is not involved
 - b. DMA means CPU works more to make the data transfer faster
 - c. DMA means direct access to I/O is performed
 - d. DMA means direct access to register is performed
13. Which of the following is true? ____ (1 point)
- a. Registers are faster than CPU
 - b. CPU is faster than registers
 - c. CPU is not faster than RAM
 - d. Registers are faster than main memory
14. Which of the following is true? ____ (1 point)
- a. Caching is performed only at software level
 - b. Caching is performed also at software level
 - c. Caching is performed only at hardware level
 - d. Caching is not performed at software level
15. Which of the following is true? ____ (1 point)
- a. Registers are managed by OS
 - b. Registers are managed by compilers
 - c. Registers are managed by hardware
 - d. Registers are managed by programs
 - e. Registers are managed by caching
16. Multiprogramming means: ____ (1 point)
- a. Many programs run together on disk
 - b. Many programs exist together on disk
 - c. Many programs run together on RAM
 - d. Many programs share resources at the same time
17. Data being processed by CPU are usually copied first: ____ (1 point)
- a. From disk to disk
 - b. From RAM to RAM
 - c. From main memory to cache
 - d. From disk to cache
 - e. From cache to disk
18. The difference between kernel mode and user mode is: ____ (1 point)
- a. K-mode is always on
 - b. U-mode is always on
 - c. In U-mode you have more options
 - d. In K-mode you can access registers

- e. In K-mode you can execute privileged operations
19. Single-threaded processes have: ____ (1 point)
- a. One CPU per process
 - b. Many program counters
 - c. Many registers specifying the location of instructions to execute
 - d. Only one program counter specifying the whole program to run
 - e. Only one program counter specifying the next instruction to execute
20. Which of the following is true? In a client-server schema ____ (1 point)
- a. Every node is a peer
 - b. There is only one server
 - c. There is only one client
 - d. The client is a peer and all the rest is not
 - e. There could be no server and many clients
 - f. There are minimally a server and a client