## **Operating Systems Fundamentals.**

## Lesson 1. Quiz. Answers

1 - What characterizes an Operating System the most?	
a)	System calls
b)	Command interpreter
c)	The shell
d)	Commands
2 - What information about a file is NOT returned in the struct stat by the STAT call?	
a)	The file size
b)	The name of the file
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- - c) The type of file
  - d) The date of the last access to the file.
- 3 What service ends the execution of a process?
  - a) return
  - b) end
  - c) finish
  - d) exit
- 4 Which service duplicates the process that invokes the call
  - a) exec
  - b) clone
  - c) fork
  - d) creat
- 5 What descriptor predefines standard output?
  - a) 0
  - b) 1
  - c) 2
  - d) 3
- 6 What service allows to create a file
  - a) mkfile
  - b) read
  - c) touch
  - d) creat
- 7 Which service allows to modify the attributes for an open file
  - a) fnclt
  - b) chmod
  - c) attribute
  - d) fstat
- 8 How does a microkernel tell a handler that an interrupt has occurred?
  - a) Using a shared variable.
  - b) A message.
  - c) A semaphore
  - d) A condition variable
- 9 The UNIX operating system has a structure
  - a) Layered
  - b) virtual machines
  - c) Monolithic
  - d) Client-Server
- 10 What system call can be invoked with a variable number of arguments?
  - a) fork
  - b) write

- c) creat
- d) None of them

## 11 - What is false about the EXEC system call?

- a) Change the memory image of a process
- b) Allows passing arguments to the called program
- c) Change the identifier of the process
- d) Keeps descriptors open.

## 12 - What feature is not a requirement of an OS's memory management system?

- a) relocation
- b) sharing
- c) memory allocation
- d) Virtual to physical address translation.
- 13 Choose the correct statement related to the bootstrap program:
  - a) Typically stored in the RAM, generally known as firmware.
  - b) It is loaded only in the reboot.
  - c) Loads the operating system the kernel and the user applications
  - d) None of the above.
- 14 Where does the OS load a program before executing it?
  - a) EPROM
  - b) ROM
  - c) RAM
  - d) Any Storage Device.
- 15 What do we understand as a trap when referring to operating system operations?
  - a) An infinite loop from which you cannot exit.
  - b) A section of code which is not performing as intended.
  - c) A request from the user program.
  - d) None of the above
- 16 Which are the main advantages of the usage of multiprocessor systems?
  - a) Less throughput, more reliability, less cost.
  - b) Greater throughput
  - c) Greater throughput, easier to implement, less cost.
  - d) None of the above.
- 17 Which one of the following can be considered part of the operating system?
  - a) kernel and file manager
  - b) kernel and web browser
  - c) file manager without kernel
  - d) none of the above
- 18 Which of the following tasks is performed by the kernel?
  - a) Memory management.
  - b) Scheduling tasks for the CPU to run.
  - c) File management.
  - d) All previous answers are correct.
- 19 Select the correct statement about the bootstrap:
  - a) It is the program loaded at the startup of the computer that initializes the operating system.
  - b) It is located in a random address in the main memory of the computer.
  - c) It is a program that determines the type of interrupt in the interrupt handling process.
  - d) It is always saved in a SRAM
- 20 Which one of the following definition describes a program correctly:
  - a) a program is the same as a process
  - b) a program is an active entity being executed in the cpu
  - c) a program is a passive entity stored in files

d) a program contains only one process