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Continuing Education Course #270  
Fundamentals of Linux  
For the Professional Engineer

1. The Atanasoff computer was developed after:

- a. 1940
- b. 1950
- c. 1960
- d. 1970

2. The early Unix operating system was developed by:

- a. ATT
- b. University of California at Berkeley
- c. Both of the two above jointly
- d. neither of the two above

3. All distribution versions of Linux must have:

- a. a the Linux kernel
- b. a Desktop interface
- c. an ATT "C" compiler
- d. none of the above

4. Versions of the Linux Operating System support:

- a. multi-tasking
- b. multi-processing
- c. multi-threading
- d. all of the above

5. For this course, we recommend installation of:

- a. the VirtualBox software
- b. the Xubuntu Linux distribution
- c. the Kali Linux distribution
- d. all of the above

6. The Linux bootstrap software uses:

- a. BIOS
- b. MBR
- c. GRUB
- d. all of the above

7. Linux uses a "virtual" memory to augment physical memory:

- a. True
- b. False

8. A 32-bit machine has memory that is:
- a. limited to 32 registers
  - b. able to support over 4 billion addresses
  - c. limited to 4k pages
  - d. larger than a quart of memory
9. The highest memory addresses in a Linux Memory Map are reserved for:
- a. kernel code
  - b. kernel data
  - c. user code
  - d. user data
10. Linux I/O devices on the bus may include:
- a. a graphics adapter
  - b. a USB controller
  - c. a disk controller
  - d. any/all of the above
11. The Linux Desktop appearance of Xubuntu and Kali are:
- a. identical to MicroSoft Windows 7
  - b. similar but distinct
  - c. identical to each other
  - d. identical to MicroSoft Windows XP
12. The Linux Terminal or Shell windows appearance of Xubuntu and Kali are:
- a. identical to MicroSoft Windows 7
  - b. similar but distinct
  - c. identical to each other
  - d. identical to MicroSoft Windows XP
13. The Linux command-line instruction to access the manual pages for instructions is:
- a. pwd
  - b. cp
  - c. man
  - d. ls
14. The Linux permission character that indicates write permission is:
- a. "r"
  - b. "w"
  - c. "x"
  - d. "d"
15. The "C" language is a natural choice for Linux shell programming
- a. True
  - b. False
16. The basic kernel file structure is organized as a hierarchical "tree."
- a. True
  - b. False
17. The Linux Software Subsystems Architecture includes:

- a. Memory management
- b. I/O management
- c. File system management
- d. Process management
- e. Inter-process communication
- f. Networking
- g. all of the above

18. Linux processes, tasks, and threads that are descriptors of system dynamics.

- a. True
- b. False

19. A Linux process and thread are identical because they are both spawned by the fork() system call

- a. True
- b. False

20. Linux network debug instructions include:

- a. dig
- b. route
- c. all of the above
- d. none of the above

21. A Linux communications stack installation uses Internet packet address structures that include

- a. ipv4
- b. ipv6
- c. both of the above
- d. none of the above

22. Linux system security issues include:

- a. physical access
- b. file permissions
- c. the extent you are willing to go to protect data
- d. all of the above

23. Kali Linux has an extensive collection of system security software

- a. True
- b. False

24. There are numerous FOSS applications programs that can be installed in Linux that will seem familiar to users of other proprietary Operating Systems

- a. True
- b. False

25. For certain circumstances, there is an application that supports running Windows software under Linux.

- a. True
- b. False

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