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Operating Systems Fundamentals

2. **The Main Memory consists of RAM (Random Access Memory) and ROM (Read Only Memory)**

   ◯ True

   ⦿ False

3. **All of the secondary storages used as Output devices only for permeant storage.**

   ◯ True

   ⦿ False

4. **Bootstrap is a framework stored in ROM contains some instructions called basic input output instructions (BIOS).**

   ⦿ True

   ◯ False

5. **Windows server 2008 and Novell Netware are batching operating systems.**

   ◯ True

   ⦿ False

6. **The purpose of the operating system is to ensure that it abstracts the HW and facilitates the seamless execution of users' applications using the system.**

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◯ False

7. **The application itself is the responsible for accessing the memory variable storage and perform the calculations based on values in memory.**

🔵 True

◯ False

8. **Threads help in performing parallelism within the same process.**

🔵 True

◯ False

9. **Interrupt vector contains the addresses for all Interrupt Service Routines (ISR) for all I/O devices that connected to the computer system.**

🔵 True

◯ False

10. **The process which running in user-mode services would be able to access the hardware directly.**

◯ True

🔵 False

11. **A Virtual Machine has its own guest OS, which may be the same as or different from the underlying host OS.**

🔵 True

◯ False

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12. **Which of the following are Output Devices? (Select all the correct answers)**

☑ Data Projectors

☐ Microphone

☑ Speaker and Headphones

☐ Scanner (2D and 3D)

☑ Printer (2D and 3D) – inkjet or laser

13. **The .... is a program that controls the execution of other programs running on the system. It acts as a facilitator and intermediate layer between the different software components and the computer hardware.**

○ Bootstrap

◉ Operating System

○ Database Management System

○ Embedded System

14. **The main objectives of any operating systems are: (Select all the correct answers)**

☑ Efficiency of the OS in terms of responsiveness, fluidity, and so on

☑ Ability to abstract and extend to new devices and software

☑ Ease of usability to the user in terms of making it convenient

☐ Control the flow of data through local networks.

15. **The Usage type categorization of operating systems are: (Select all the correct answers)**

☑ Batch Operating Systems

☑

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☑ Parallel – Distributed Operating Systems

☑ Network Operating Systems

☑ Real Time Operating Systems

16. **Select the Advantages of virtualization from the following: (Select all the correct answers)**

☑ Emulate more machines than are physically available.

☑ Run operating systems where the physical hardware is unavailable.

☑ Run legacy systems.

☑ Debug problems (suspend and resume the problem machine).

17. **Which of the following are the responsibilities of an operating systems? (Select all the correct answers)**

☑ Access and protection

☑ File systems

☑ Scheduling

☑ Memory management

☑ I/O and resource management

18. **The types of addressing of memory in the operating systems are: (Select all the correct answers)**

☑ Logical Address

☑ Physical Address

☐ Controlling

☐ None of the above.

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The way of management when the two processes need to save in the shared memory at the same time, it is called ....

○ Compilation

○ Execution

◉ Synchronization

○ Termination

20. When a set of processes become blocked because each process is holding a resource and waiting for another resource acquired by some other process. This is called ......

○ Synchronization

◉ Deadlock.

○ Acceleration.

○ Process Status.

21. The OS needs to be able to periodically clear temporarily created files that may no longer be required for the functioning of the system. This is typically done using a .... on the system.

◉ Garbage Collector.

○ Anti-Virus.

○ Data Collector.

○ None of the above.

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