مطلوب

33,

Process is a passive entity.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

44,

Operating System Protection refers to a mechanism for controlling access by programs, or users to system resources.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

55,

The user program deals with logical addresses; it never sees the real physical addresses.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

66,

Cloud computing can be defined as a new style of computing in which dynamically scalable and virtualized resources are provided as a network service.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

77,

The System calls are calling for hardware interrupts.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

88,

Bootstrap program is loaded after power-up or reboot. مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

99,

Open(Ni) – as a File operation- means: move the content of entry Ni in memory to directory structure on disk.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

1010,

Any process may pass data to other process.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

1111,

The one program running at all times on the computer is the kernel. مطلوب الإجابة. خيار واحد.
(2 نقطة)

- True
- False

1212,

By using the virtual memory, the logical address space can be much larger than physical address space.مطلوب الإجابة. خيار واحد.
(2 نقطة)

- [x] True
- False

1313,

We can describe the Process Control Block (PCB) as: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] It is just used by operating system designers for design purpose
- [ ] A way to transfer a process between different types of operating systems
- [ ] Each process is represented in the operating system by a PCB
- [ ] type of addressing

1414,

Interrupt transfers control to the interrupt subroutine (subprogram) generally, through the:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Interrupt vector
- [ ] Interrupt service routine.
- [ ] Interrupt sector.

- [ ] Interrupt section

1515,

Device Queue is:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] A set of all processes in the system
- [ ] A set of all processes residing in main memory, ready and waiting to execute.
- [ ] A set of processes waiting for an I/O device.
- [ ] A set of terminated processes

1616,

One of the scheduling optimization ways is minimizing: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Turnaround time of each process.
- [ ] Average waiting time of processes.
- [ ] Response time for each process.
- [ ] All of the above.

1717,

All the following are directory operations except: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Read from a File.
- [ ] Search for a file.
- [ ] Delete a file.
- [ ] Rename a file

1818,

Client-Server system is a type of:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Multi-Processor systems
- [ ] Desktop Systems
- [ ] Clustered Systems
- [ ] Distributed System

1919,

In memory management, compaction is an operation to reduce: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Internal Fragmentation
- [ ] External Fragmentation

- [ ] Overhead allocation problem
- [ ] None of the above

2020,

Traps or exceptions are happening because:مطلوب الإجابة. الاختيار من متعدد.
(نقطة 2)

- [ ] Error, division by zero or invalid memory access
- [ ] A process need to call an API of its operating system
- [ ] A process communicates another process
- [ ] All of the above

2121,

The types of addressing in a computer system: مطلوب الإجابة. الاختيار من متعدد.
(نقطة 2)

- [ ] Physical address
- [ ] Real address
- [ ] Logical address
- [ ] None of the above

2222,

The base register is a register which include:مطلوب الإجابة. الاختيار من متعدد.
(نقطة 2)

- [ ] The first physical address of the currently running program
- [ ] The first logical address of the currently running program
- [ ] The first physical address of the finished program
- [ ] The first logical address of a waiting program

2323,

The types of deployment models of cloud – way of access to the cloud- are:مطلوب الإجابة. الاختيار من متعدد.
(نقطة 2)

- [ ] Private
- [ ] Public
- [ ] Community
- [ ] Hybrid

2424,

Select the file access methods from the following: مطلوب الإجابة. الاختيار من متعدد.
(نقطة 2)

- [ ] Random Access

- [ ] Sequential Access
- [ ] Direct Access
- [ ] None of the above

2525,

The Deadlock can arise if the following conditions hold simultaneously:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Mutual Exclusion
- [ ] Hold and wait
- [ ] Circular wait
- [ ] No preemption resources

2626,

For any modern time-sharing operating system, select the common available process operations which may be managed: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Creation/termination
- [ ] Memory compaction
- [ ] Open/close file
- [ ] Going to trap module

2727,

Select the most appropriate statement to describe the relations between a child process and its parent process:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] OS does not allow a child process to continue after termination of its parent.
- [ ] OS allows a child process to continue after termination of its parent.
- [ ] OS allows a child process to be created without parent process.
- [ ] There is no relation between a child process and its parent process.

2828,

The Dispatch latency is:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Time to get a process from ready queue to be running in CPU.
- [ ] Time it takes for the dispatcher to stop one process and start another running.
- [ ] Time to remove all the processes from ready queue.
- [ ] None of the above.

2929,

Select the advantages of virtual machines from the following: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Run operating systems where the physical hardware is unavailable
- [ ] Emulate more machines than are physically available
- [ ] Enhance the memory management performance
- [ ] Run legacy systems

3030,

Any process may be at one of the following states: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Ready
- [ ] Running
- [ ] Interrupting
- [ ] **Waiting**

3131,

Select the file allocation Methods from the following: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Contiguous Allocation
- [ ] Linked Allocation
- [ ] Indexed Allocation
- [ ] Discrete Allocation

3232,

Multi-tasking system is a:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Multi-programmed batch system
- [ ] Time-Sharing system
- [ ] Simple Batch system
- [ ] None of the above

3333,

Ready Queue is:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] A set of all processes in the system
- [ ] A set of all processes residing in main memory, ready and waiting to execute.
- [ ] A set of processes waiting for an I/O device.
- [ ] A set of terminated processes

3434,

The Deadlock problem is:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] A set of blocked processes each holding a resource and waiting to acquire a resource held by another process in the same set
- [ ] Any number of blocked processes more than 2 processes
- [ ] More than two processes wait I/O operations
- [ ] None of the above

3535,

Short-term schedulers used to:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Select which job to be putting into ready queue
- [ ] Select which job to be running next.
- [ ] Release all processes from Operating System.
- [ ] All of the above

3636,

The process which spend most of its time doing I/O requests is called:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] CPU-Bound Process
- [ ] Active Process.
- [ ] Passive Process.
- [ ] I/O-Bound Process

3737,

Select the system calls categories from the following: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] File management
- [ ] Device Management
- [ ] Process control
- [ ] Hardware maintenance
- [ ] Communications

3838,

Some of the main reasons of processes cooperation are: .مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Data sharing.

- [ ] Modularity.
- [ ] Speedup the performance.
- [ ] All of the above

3939,

How to satisfy a request of size n from a list of free holes in main memory-in Dynamic Storage-Allocation technique:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] First-fit
- [ ] Best-fit
- [ ] Worst-fit
- [ ] All of the above.

4040,

The main function of the process dispatcher: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Gives control of the CPU to the selected process to be run by the short-term scheduler.
- [ ] Takes control of the CPU from the selected process to be run by the short-term scheduler.
- [ ] Release all the processes from ready queue.
- [ ] None of the above.

4141,

The requirements for any process are:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] CPU Burst time
- [ ] Size of needed memory
- [ ] The needed I/O devices
- [ ] The needed files

4242,

The meaning of preemptive CPU scheduling schema is: مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Waiting for another process.
- [ ] Bring a process from ready queue.
- [ ] Process is releasing the CPU before finishing its execution to execute another process.
- [ ] None of the above.

4343,

The advantages of Multi-processing system:مطلوب الإجابة. الاختيار من متعدد.

(2 نقطة)

- [ ] Increase throughput
- [ ] Increase reliability
- [ ] If CPU fail, other CPU's pick up work
- [ ] All of the above

4444,

Some of Scheduling Algorithms are:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] First Come First Serviced.
- [ ] Ideal Job First.
- [ ] Priority.
- [ ] Round Robin.

4545,

The data file types are:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Numeric
- [ ] Character
- [ ] Binary
- [ ] All of the above

4646,

Advantages of using virtual memory are:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Logical address space can therefore be much larger than physical address space
- [ ] Allows address spaces to be shared by several processes
- [ ] Allows for more efficient process creation
- [ ] Start the new process very fast

4747,

Which of the following are file attributes:مطلوب الإجابة. الاختيار من متعدد.
(2 نقطة)

- [ ] Type.
- [ ] Delete.
- [ ] Location.
- [ ] Protection

4848,

In case of using FCFS scheduling algorithm, the average waiting time for the situation is:مطلوب الإجابة. خيار واحد.
(2 نقطة)

Process	Arrival Time	Burst Time	Priority
P1	0.0	7	5
P2	5.0	8	1
P3	7.0	6	4
P4	8.0	2	2

- 23/4.
- 45/4.
- 43/4.
- 36/4.

4949,

In case of using Non-preemptive Shortest Job First (SJF) scheduling algorithm, the process P3 starts at time unit:خيار واحد. مطلوب الإجابة.
(نقطة 2)

Process	Arrival Time	Burst Time	Priority
P1	0.0	7	5
P2	5.0	8	1
P3	7.0	6	4
P4	8.0	2	2

- 7.0
- 17.0
- 27.0
- 8.0

5050,

In case of using preemptive Priority scheduling algorithm, the waiting time for process P3 is:خيار واحد. مطلوب الإجابة.
(نقطة 2)

Process	Arrival Time	Burst Time	Priority
P1	0.0	7	5
P2	5.0	8	1
P3	7.0	6	4
P4	8.0	2	2

- 8
- 7
- 15
- 17

5151,

In case of using Round Robin scheduling algorithm (with quantum 5), the process P4 ends its work at time unit:مطلوب الإجابة. خيار واحد.
(نقطة 2)

Process	Arrival Time	Burst Time	Priority
P1	0.0	7	5
P2	5.0	8	1
P3	7.0	6	4
P4	8.0	2	2

- 10.0
- 19.0
- 17.0
- 25.0

5252,

In case of using preemptive Shortest Job First (SJF) scheduling, the response time for processes P1, P2, P3, P4 are:مطلوب الإجابة. خيار واحد.
(نقطة 2)

Process	Arrival Time	Burst Time	Priority
P1	0.0	7	5
P2	5.0	8	1
P3	7.0	6	4
P4	8.0	2	2

- 0, 15, 0, 0
- 0, 10, 0, 0
- 5, 10, 15, 20
- 0, 5, 3, 7