

Operating System Exam intake 42, IoT and Tel.

Duration: 60 minutes

Required

1

Enter Your Name:Required to answer. Single line text.

2

What Is Your Track?

☐

IoT

☐

Tel.

☐

ERP

3

Process is a passive entity.

(2 Points)

☐

True

☐

False

4

Operating System Protection refers to a mechanism for controlling access by programs, or users to system resources.

(2 Points)

☐

True

☐

False

5

The user program deals with logical addresses; it never sees the real physical addresses.

(2 Points)

☐

True

☐

False

6

Cloud computing can be defined as a new style of computing in which dynamically scalable and virtualized resources are provided as a network service.

(2 Points)

☐

True

☐

False

7

The System calls are calling for hardware interrupts.

(2 Points)

☐

True

☐

False

8

Bootstrap program is loaded after power-up or reboot.

(2 Points)

- ☐ True
- ☐ False

9

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

(2 Points)

- ☐ True
- ☐ False

10

Any process may pass data to other process.

(2 Points)

- ☐ True
- ☐ False

11

The one program running at all times on the computer is the kernel.

(2 Points)

- ☐ True
- ☐ False

12

By using the virtual memory, the logical address space can be much larger than physical address space.

(2 Points)

- ☐ True
- ☐ False

13

We can describe the Process Control Block (PCB) as:

(2 Points)

- ☐ 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

14

Interrupt transfers control to the interrupt subroutine (subprogram) generally, through the:

(2 Points)

- ☐ Interrupt vector
- ☐ Interrupt service routine.
- ☐ Interrupt sector.

☐ Interrupt section

15

Device Queue is:

(2 Points)

- ☐ 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

16

One of the scheduling optimization ways is minimizing:

(2 Points)

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

17

All the following are directory operations except:

(2 Points)

- ☐ Read from a File.
- ☐ Search for a file.
- ☐ Delete a file.
- ☐ Rename a file

18

Client-Server system is a type of:

(2 Points)

- ☐ Multi-Processor systems
- ☐ Desktop Systems
- ☐ Clustered Systems
- ☐ Distributed System

19

In memory management, compaction is an operation to reduce:

(2 Points)

- ☐ Internal Fragmentation
- ☐ External Fragmentation
- ☐ Overhead allocation problem
- ☐ None of the above

20

Traps or exceptions are happening because:

(2 Points)

- ☐ 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

21

The types of addressing in a computer system:

(2 Points)

- ☐ Physical address
- ☐ Real address
- ☐ Logical address
- ☐ None of the above

22

The base register is a register which include:

(2 Points)

- ☐ 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

23

The types of deployment models of cloud – way of access to the cloud- are:

(2 Points)

- ☐ Private
- ☐ Public
- ☐ Community
- ☐ Hybrid

24

Select the file access methods from the following:

(2 Points)

- ☐ Random Access
- ☐ Sequential Access
- ☐ Direct Access
- ☐ None of the above

25

The Deadlock can arise if the following conditions hold simultaneously:

(2 Points)

- ☐ Mutual Exclusion
- ☐ Hold and wait
- ☐ Circular wait
- ☐ No preemption resources

26

For any modern time-sharing operating system, select the common available process operations which may be managed:

(2 Points)

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

27

Select the most appropriate statement to describe the relations between a child process and its parent process:

(2 Points)

- ☐ 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.

28

The Dispatch latency is:

(2 Points)

- ☐ 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.

29

Select the advantages of virtual machines from the following:

(2 Points)

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

30

Any process may be at one of the following states:

(2 Points)

- ☐ Ready
- ☐ Running
- ☐ Interrupting
- ☐ Waiting

31

Select the file allocation Methods from the following:

(2 Points)

- ☐ Contiguous Allocation
- ☐ Linked Allocation
- ☐ Indexed Allocation
- ☐ Discrete Allocation

32

Multi-tasking system is a:

(2 Points)

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

33

Ready Queue is:

(2 Points)

- ☐ 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

34

The Deadlock problem is:

(2 Points)

- ☐ 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

35

Short-term schedulers used to:

(2 Points)

- ☐ 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

36

The process which spend most of its time doing I/O requests is called:
(2 Points)

- ☐ CPU-Bound Process
- ☐ Active Process.
- ☐ Passive Process.
- ☐ I/O-Bound Process

37

Select the system calls categories from the following:
(2 Points)

- ☐ File management
- ☐ Device Management
- ☐ Process control
- ☐ Hardware maintenance
- ☐ Communications

38

Some of the main reasons of processes cooperation are:
(2 Points)

- ☐ Data sharing.
- ☐ Modularity.
- ☐ Speedup the performance.
- ☐ All of the above

39

How to satisfy a request of size n from a list of free holes in main memory- in Dynamic Storage-Allocation technique:
(2 Points)

- ☐ First-fit
- ☐ Best-fit
- ☐ Worst-fit
- ☐ All of the above.

40

The main function of the process dispatcher:
(2 Points)

- ☐ 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.

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The requirements for any process are:

(2 Points)

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

42

The meaning of preemptive CPU scheduling schema is:

(2 Points)

- ☐ 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.

43

The advantages of Multi-processing system:

(2 Points)

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

44

Some of Scheduling Algorithms are:

(2 Points)

- ☐ First Come First Serviced.
- ☐ Ideal Job First.
- ☐ Priority.
- ☐ Round Robin.

45

The data file types are:

(2 Points)

- ☐ Numeric
- ☐ Character
- ☐ Binary

☐ All of the above

46

Advantages of using virtual memory are:

(2 Points)

- ☐ 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

47

Which of the following are file attributes:

(2 Points)

- ☐ Type.
- ☐ Delete.
- ☐ Location.
- ☐ Protection

48

In case of using FCFS scheduling algorithm, the average waiting time for the situation is:

(2 Points)

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

49

In case of using Non-preemptive Shortest Job First (SJF) scheduling algorithm, the process P3 starts at time unit:

(2 Points)

- ☐ 7.0
- ☐ 17.0
- ☐ 27.0
- ☐ 8.0

50

In case of using preemptive Priority scheduling algorithm, the waiting time for process P3 is:

(2 Points)

- ☐ 8
- ☐ 7

☐ 15

☐ 17

51

In case of using Round Robin scheduling algorithm (with quantum 5), the process P4 ends its work at time unit:

(2 Points)

☐ 10.0

☐ 19.0

☐ 17.0

☐ 25.0

52

In case of using preemptive Shortest Job First (SJF) scheduling, the response time for processes P1, P2, P3, P4 are:

(2 Points)

☐ 0, 15, 0, 0

☐ 0, 10, 0, 0

☐ 5, 10, 15, 20

☐ 0, 5, 3, 7

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