

Required

1

Enter Your Full Name

2

Select Your Track Name

- ☐ Enterprise & Web Development (Java)
- ☐ Mobile Application Development (Native)

3

True or False: By using the virtual memory, the logical address space can be much larger than physical address space

(2 Points)

- ☒ True
- ☐ False

4

True or False: The System calls are calling for hardware interrupts

(2 Points)

- ☐ True
- ☒ False

5

True or False: Bootstrap program is loaded after power-up or reboot

(2 Points)

- ☒ True
- ☐ False

6

True or False: Any process may pass data to other process

(2 Points)

- ☒ True
- ☐ False

7

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

(2 Points)

- ☐ True
- ☒ False

8

True or False: Deadlock is a set of blocked processes each holding a resource and waiting to acquire a resource held by another process out of the set.

(2 Points)

- ☐ True
- ☒ False

in the same

9

True or False: 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

10

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

(2 Points)

- ☒ True
- ☐ False

11

True or False: The user program deals with logical addresses; it never sees the real physical addresses.

(2 Points)

- ☒ True
- ☐ False

12

True Or False: Any I/O Controller moves data between any I/O device and other I/O device

(2 Points)

- ☐ True
- ☒ False

13

Process	Arrival Time	Burst Time	Priority
P1	0.0	5	4
P2	1.0	4	2
P3	4.0	6	1
P4	5.0	5	3

You are given that information about some of processes which are ready to be running with a CPU in an Operating System: In case of using Round Robin scheduling algorithm (with quantum 5), the response time for processes P1, P2, P3, P4 respectively are:

(2 Points)

- ☐ a. 0, 5, 10, 14
- ☐ b. 0, 3, 6, 8
- ☐ c. 5, 9, 19, 20
- ☐ d. 0, 4, 5, 9

14

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

(2 Points)

- ☐ a. CPU-Bound Process
- ☐ b. Active Process.
- ☐ c. Passive Process.
- ☒ d. I/O-Bound Process

15

Select the file allocation Methods from the following:

(2 Points)

- ☒ a. Contiguous Allocation
- ☒ b. Linked Allocation
- ☒ c. Indexed Allocation
- ☐ d. Discrete Allocation

16

Some of the main reasons of processes cooperation are:

(2 Points)

- ☐ a. Data sharing.

- ☐ b. Modularity.
- ☐ c. Speedup the performance.
- ☒ d. All of the above.

17

29. The requirements of resources for any process are:

(2 Points)

- ☒ a. CPU Burst time
- ☒ b. Size of needed memory
- ☒ c. The needed I/O devices
- ☒ d. The needed files
- ☐ e. None of the above

18

Select the file access methods from the following:

(2 Points)

- ☐ a. Random Access
- ☒ b. Sequential Access
- ☒ c. Direct Access
- ☐ d. None of the above

+ index seq.
access

19

The advantages of Multi-processing system:

(2 Points)

- ☐ a. Increase throughput
- ☐ b. Increase reliability
- ☐ c. If CPU fail, other CPU's pick up work
- ☒ d. All of the above

20

Computer System Components are:

(2 Points)

- ☐ a. Hardware
- ☐ b. Application Programs
- ☐ c. Operating System
- ☐ d. Users
- ☒ e. All of the above

21

The base register is a register which include:

(2 Points)

- ☒ a. The first physical address of the currently running program
- ☐ b. The first logical address of the currently running program
- ☐ c. The first physical address of the just finished program
- ☐ d. The first logical address of a waiting program

22

All the following are directory operations except:

(2 Points)

- ☒ a. Read from a File
- ☐ b. Search for a file.
- ☐ c. Delete a file.
- ☐ d. Rename a file

23

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

(2 Points)

- ☒ a. Private
- ☐ b. Public
- ☒ c. Hybrid
- ☐ d. Community

24

Ready Queue is:

(2 Points)

- ☐ a. A set of all processes in the system
- ☒ b. A set of all processes residing in main memory, ready and waiting to execute.
- ☐ c. A set of processes waiting for an I/O device.
- ☐ d. A set of terminated processes

25

The data file types are:

(2 Points)

- ☐ a. Numeric
- ☐ b. Character
- ☐ c. Binary
- ☒ d. All of the above

- ☐ e. None of the above

26

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

(2 Points)

- ☐ a. It is just using by operating system designers for design purpose
- ☐ b. A way to transfer a process between different types of operating systems
- ☒ c. The way of represent and control a process in the operating system
- ☐ d. type of addressing

27

Select the system calls categories from the following:

(2 Points)

- ☒ a. File management
- ☒ b. Device Management
- ☒ c. Process control
- ☐ d. Hardware maintenance
- ☒ e. Communications

28

Short-term schedulers used to:

(2 Points)

- ☐ a. Select which job to be putting into ready queue
- ☒ b. Select which job to be running next.
- ☐ c. Release all processes from Operating System.
- ☐ d. All of the above

29

One of the scheduling optimization ways is minimizing:

(2 Points)

- ☐ a. Turnaround time of each process.
- ☐ b. Average waiting time for processes.
- ☐ c. Response time for each process.
- ☒ d. All of the above.

30

The main function of the process dispatcher:

(2 Points)

- ☒ a. Gives control of the CPU to the selected process to be run by the short-term scheduler.

- ☐ b. Takes control of the CPU from the selected process to be run by the short-term scheduler.
- ☐ c. Release all the processes from ready queue.
- ☐ d. None of the above.

31

Any process may be at one of the following states:

(2 Points)

- ☒ a. ready
- ☒ b. running
- ☐ c. interrupting
- ☒ d. waiting

32

The meaning of preemptive CPU scheduling schema is:

(2 Points)

- ☐ a. Waiting for another process.
- ☐ b. Bring a process from ready queue.
- ☒ c. Process is releasing the CPU before finishing its execution to execute another process.
- ☐ d. None of the above.

33

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

(2 Points)

- ☒ a. Creation/termination
- ☐ b. Memory compaction
- ☐ c. Open/close file
- ☐ d. Going to trap module

34

Select the advantages of virtual machines from the following:

(2 Points)

- ☒ a. Run operating systems where the physical hardware is unavailable
- ☒ b. Emulate more machines than are physically available
- ☐ c. Enhance the memory management performance
- ☒ d. Run legacy systems

35

Device Queue is

(2 Points)

- ☐ a. A set of all processes in the system
- ☐ b. A set of all processes residing in main memory, ready and waiting to execute.
- ☒ c. A set of processes waiting for an I/O device.
- ☐ d. A set of terminated processes

36

Process	Arrival Time	Burst Time	Priority
P1	0.0	5	4
P2	1.0	4	2
P3	4.0	6	1
P4	5.0	5	3

You are given that information about some of processes which are ready to be running with a CPU in an Operating System: In case of using Round Robin scheduling algorithm (with quantum 5), the process P4 ends its work at time unit:

(2 Points)

- ☐ a. 5.0
- ☐ b. 19.0
- ☐ c. 20.0
- ☐ d. 9.0

37

Which of the following are the deadlock Characterizations?

(2 Points)

- ☒ a. Mutual Exclusion
- ☐ b. Hold without wait
- ☒ c. Circular wait
- ☒ d. No preemption resources

38

Operating System Objectives are:

(2 Points)

- ☒ a. Execute User Programs
- ☒ b. Hardware Protection
- ☒ c. Efficiency

Process	Arrival Time	Burst Time	Priority
P1	0.0	5	4
P2	1.0	4	2
P3	4.0	6	1
P4	5.0	5	3

You are given that information about some of processes which are ready to be running with a CPU in an Operating System: In case of using First Come First Served (FCFS) scheduling algorithm, the average waiting time for the above situation is:

(2 Points)

- ☐ a. 19/4.
- ☐ b. 20/4.
- ☐ c. 21/4.
- ☐ d. 18/4.

Process	Arrival Time	Burst Time	Priority
P1	0.0	5	4
P2	1.0	4	2
P3	4.0	6	1
P4	5.0	5	3

You are given that information about some of processes which are ready to be running with a CPU in an Operating System: In case of using Non-preemptive Shortest Job First (SJF) scheduling algorithm, the process P2 starts at time unit:

(2 Points)

- ☐ a. 1.0
- ☐ b. 4.0
- ☐ c. 5.0
- ☐ d. 9.0

Advantages of using virtual memory are:

(2 Points)

- ☐ a. Logical address space can therefore be much larger than physical address space
- ☐ b. Allows address spaces to be shared by several processes
- ☐ c. Allows for more efficient process creation
- ☐ d. Start the new process very fast

42

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

(2 Points)

- ☒ a. OS does not allow a child process to continue after termination of its parent.
- ☐ b. OS allows a child process to be created before its parent.
- ☐ c. OS allows a child process to be created without parent process.
- ☐ d. There is no relation between a child process and its parent process.

43

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

(2 Points)

- ☐ a. First-fit
- ☐ b. Best-fit
- ☐ c. Worst-fit
- ☒ d. All of the above.

44

The Dispatch latency is:

(2 Points)

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

45

In memory management, compaction is an operation to reduce:

(2 Points)

- ☐ a. Internal Fragmentation
- ☒ b. External Fragmentation

- ☐ c. Overhead allocation problem
- ☐ d. None of the above

46

Client-Server system is a type of:

(2 Points)

- ☐ a. Multi-Processor systems
- ☐ b. Desktop Systems
- ☐ c. Clustered Systems
- ☒ d. Distributed System

47

Select all the available Cloud-Computing service models from the following:

(2 Points)

- ☒ a. Infrastructure As A Service (IAAS)
- ☐ b. Network As A Service (NAAS)
- ☒ c. Database As A Service (DAAS)
- ☐ d. Social-Media As A Service (SAAS)

48

Which of the following are file attributes?

(2 Points)

- ☒ a. File Type.
- ☐ b. File Could be Deleted.
- ☒ c. File Location.
- ☒ d. File Protection

49

The types of addressing in a computer system:

(2 Points)

- ☒ a. Physical address
- ☐ b. Loaded address
- ☒ c. Logical address
- ☐ d. None of the above

50

Traps or exceptions are happening because:

(2 Points)

- ☐ a. Error, division by zero or invalid memory access

- ☐ b. A process need to call an API of its operating system
- ☐ c. A process communicates another process
- ☒ d. All of the above

51

Some of Scheduling Algorithms are:

(2 Points)

- ☒ a. First Come First Serviced.
- ☐ b. Ideal Job First.
- ☒ c. Priority.
- ☒ d. Round Robin

52

Process	Arrival Time	Burst Time	Priority
P1	0.0	5	4
P2	1.0	4	2
P3	4.0	6	1
P4	5.0	5	3

You are given that information about some of processes which are ready to be running with a CPU in an Operating System: In case of using preemptive Priority scheduling algorithm, the waiting time for process P3 is:

(2 Points)

- ☐ a. 0
- ☐ b. 7
- ☐ c. 10
- ☐ d. 17

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