

## **Operating System** Fundamentals Exam - Intake Allowed time 60 minutes Tuesday 16/11

## Notes:

- The exam includes 50 questions: 10 (True/False) and 40 (Multiple Choices) in ONE hour
- It is Forbidden to use any electronic aided device (Mobile, Calculator, Organizer, ...... etc.)

\* Required

1

Fnter Your Full Name \*

Enter your answer

2

Select Your Track Name \*

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

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
<u>False</u>
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
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

True or False: Operating System Protection refers to a mechanism for controlling access by programs, or users to system resources (2 Points)

- False

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

(2 Points)

- False

12

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

(2 Points)

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

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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

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.
<ul><li>17</li><li>29. The requirements of resources for any process are:</li></ul>
(2 Points)
a. CPU Burst time
b. Size of needed memory
c. The needed I/O devices
d. The needed files

file:///C:/Users/rinad/AppData/Local/Temp/Rar\$EXa8812.28804/Operating System Fundamentals Exam - Intake 42 Allowed time 60 minutes Tuesday... 7/20

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
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)

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a. Private	
b. Public	
c. Hybrid	
d. Community	
24	
Ready Queue is (2 Points)	S:
a. A set of all pro	ocesses in the system
b A set of all pro	ocesses residing in main memory, ready and waiting to execute.
c. A set of proces	sses waiting for an I/O device.
od. A set of termin	nated processes
25	
The data file ty (2 Points)	pes are:
a. Numeric	
b. Character	
C. Binary	
All of the above	/e
e. None of the al	pove

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
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.

a. ready

b. running

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

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O d. 9.0	
37	
Which of the follow (2 Points)	ving are the deadlock Characterizations?
a. Mutual Exclusion	
b. Hold without wait	
c. Circular wait	<b>-</b>
d. No preemption reso	ources
38	
Operating System (2 Points)	Objectives are:
a. Execute User Progra	ams
b. Hardware Protectio	n
c. Efficiency	

d. File Conversion

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.
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b. 20/4.

c. 21/4.

d. 18/4.

40

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

b. Best-fit

c. Worst-fit

41 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. Desktop Systems

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)

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( )	а	$\cap$

c. 10

d. 17

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