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?
C _{loT}
C Tel.
ERP
Process is a passive entity.
O-/ ANAM
False
Operating System Protection refers to a machanism for controlling assess by programs, or users to
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
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)
on disk. (2 Points) True True
False
10
Any process may pass data to other process.
(2 Points)
True
C False
11
The one program running at all times on the computer is the kernel.
(2 Points)
True
C 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 Day	ina Overva in
	ice Queue is: oints)
	A set of all processes in the system
	A set of all processes residing in main memory, ready and waiting to execute.
D	A set of processes waiting for an I/O device.
1.6	A set of terminated processes
16	
	e of the scheduling optimization ways is minimizing: oints)
	Turnaround time of each process.
	Average waiting time of processes.
	Besponse time for each process.
	All of the above.
17	
	the following are directory operations except: oints)
U	Read from a File.
	Search for a file.
	Delete a file.
	Rename a file
18	
	nt-Server system is a type of: oints)
	Multi-Processor systems
	Desktop Systems
	Clustered Systems
0/	Distributed System
19	
	nemory management, compaction is an operation to reduce: oints)
	Internal Fragmentation
0	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
The types of addressing in a computer system: (2 Points)
Physical address
Beal 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)
(2 Points) Random Access
Random Access
Random Access Sequential Access Direct Access None of the above
Random Access Sequential Access Direct Access

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)
Tipre 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)

/

Beady
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 Quaya is:
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

Long-berm

Dort-tenn 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 Select the system calls categories from the following: (2 Points) File management Device Management Process control Hardware maintenance Communications Some of the main reasons of processes cooperation are: (2 Points) Data sharing. Modularity. peedup the performance. All of the above 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. 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.	
41	
The requirements for any process are:	
(2 Points)	
CPU Burst time	
Size of needed memory	
The needed I/O devices	
The needed files	
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	
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)
0
23/4.
45/4.
C 43/4.
C 36/4.
49
In case of using Non-preemptive Shortest Job First (SJF) scheduling algorithm, the process P3 starts
at time unit:
(2 Points)
C 7.0
17.0
^C 27.0
C 8.0
50
In case of using preemptive Priority scheduling algorithm, the waiting time for process P3 is: (2 Points)
8
· 7

C ₁₅
C ₁₇
51
In case of using Round Robin scheduling algorithm (with quantum 5), the process P4 ends its work attime unit: (2 Points)
C _{10.0}
C 19.0
C 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)
O, 15, 0, 0
[©] 0, 10, 0, 0
5, 10, 15, 20
O, 5, 3, 7
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