# **Explore More**

Subcription: Premium CDAC NOTES & MATERIAL @99



Contact to Join Premium Group



Click to Join
Telegram Group

# For More E-Notes

Join Our Community to stay Updated

TAP ON THE ICONS TO JOIN!

	codewitharrays.in freelance project available to buy contact on 8007592194		
SR.NO	Project NAME	Technology	
1	Online E-Learning Platform Hub	React+Springboot+MySql	
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql	
3	Tour and Travel management System	React+Springboot+MySql	
4	Election commition of India (online Voting System)	React+Springboot+MySql	
5	HomeRental Booking System	React+Springboot+MySql	
6	Event Management System	React+Springboot+MySql	
7	Hotel Management System	React+Springboot+MySql	
8	Agriculture web Project	React+Springboot+MySql	
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql	
10	E-commerce web Project	React+Springboot+MySql	
11	Hospital Management System	React+Springboot+MySql	
12	E-RTO Driving licence portal	React+Springboot+MySql	
13	Transpotation Services portal	React+Springboot+MySql	
14	Courier Services Portal / Courier Management System	React+Springboot+MySql	
15	Online Food Delivery Portal	React+Springboot+MySql	
16	Muncipal Corporation Management	React+Springboot+MySql	
17	Gym Management System	React+Springboot+MySql	
18	Bike/Car ental System Portal	React+Springboot+MySql	
19	CharityDonation web project	React+Springboot+MySql	
20	Movie Booking System	React+Springboot+MySql	

freelance_Project available to buy contact on 8007592194			
21	Job Portal web project	React+Springboot+MySql	
22	LIC Insurance Portal	React+Springboot+MySql	
23	Employee Management System	React+Springboot+MySql	
24	Payroll Management System	React+Springboot+MySql	
25	RealEstate Property Project	React+Springboot+MySql	
26	Marriage Hall Booking Project	React+Springboot+MySql	
27	Online Student Management portal	React+Springboot+MySql	
28	Resturant management System	React+Springboot+MySql	
29	Solar Management Project	React+Springboot+MySql	
30	OneStepService LinkLabourContractor	React+Springboot+MySql	
31	Vehical Service Center Portal	React+Springboot+MySql	
32	E-wallet Banking Project	React+Springboot+MySql	
33	Blogg Application Project	React+Springboot+MySql	
34	Car Parking booking Project	React+Springboot+MySql	
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql	
36	Society management Portal	React+Springboot+MySql	
37	E-College Portal	React+Springboot+MySql	
38	FoodWaste Management Donate System	React+Springboot+MySql	
39	Sports Ground Booking	React+Springboot+MySql	
40	BloodBank mangement System	React+Springboot+MySql	

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
57		React+Springboot+MySql
58		React+Springboot+MySql
59		React+Springboot+MySql
		Reactispinigoodtiviysqi
60		React+Springboot+MySql

# **Spring Boot + React JS + MySQL Project List**

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9cIHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=IIOS-QG3TpAFP5k7
5	<b>Ecommerce Shopping project</b>	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyI4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/ 4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W GRw?si=Y jv1xV BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSlSm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

#### **Operating System Questions & Answers – Basics**

- 1. What is operating system?
- a) collection of programs that manages hardware resources
- b) system service provider to the application programs
- c) link to interface the hardware and application programs
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 2. To access the services of operating system, the interface is provided by the
- a) System calls
- b) API
- c) Library
- d) Assembly instructions

View Answer

Answer: a

Explanation: None.

- 3. Which one of the following is not true?
- a) kernel is the program that constitutes the central core of the operating system
- b) kernel is the first part of operating system to load into memory during booting
- c) kernel is made of various modules which can not be loaded in running operating system
- d) kernel remains in the memory during the entire computer session

View Answer

Answer: c

Explanation: None.

- 4. Which one of the following error will be handle by the operating system?
- a) power failure
- b) lack of paper in printer
- c) connection failure in the network
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 5. The main function of the command interpreter is
- a) to get and execute the next user-specified command
- b) to provide the interface between the API and application program
- c) to handle the files in operating system
- d) none of the mentioned

View Answer

Answer: a

- 6. By operating system, the resource management can be done via
- a) time division multiplexing
- b) space division multiplexing

c) both time and space division multiplexing			
d) none of the mentioned			
View Answer			
Answer: c			
Explanation: None.			
7. If a process fails, most operating system wri	te the error information to a	a	
a) log file			
b) another running process			
c) new file			
d) none of the mentioned			
View Answer			
Answer: a			
Explanation: None.			
Explanation. Profic.			
8. Which facility dynamically adds probes to a	running system, both in use	or processes and in the kernel?	
a) DTrace	running system, both in use	er processes and in the kerner:	
b) DLocate			
c) DMap			
d) DAdd			
View Answer			
10 m m m m			
Answer: a			
Explanation: None.			
			, ,
9. Which one of the following is not a real time	e operating system?		
a) VxWorks			
b) Windows CE			
c) RTLinux			
d) Palm OS			
View Answer			
Explanation: None.			
10. The OS X has			
a) monolithic kernel			
b) hybrid kernel			
c) microkernel			
d) monolithic kernel with modules			
View Answer			
Answer: b			
1 1115 YY C1 . U			

#### **Operating System Questions & Answers – Processes**

- 1. The systems which allows only one process execution at a time, are called
- a) uniprogramming systems
- b) uniprocessing systems
- c) unitasking systems
- d) none of the mentioned

View Answer

#### Answer: b

Explanation: Those systems which allows more than one process execution at a time, are called multiprogramming systems. Uniprocessing means only one processor.

- 2. In operating system, each process has its own
- a) address space and global variables
- b) open files
- c) pending alarms, signals and signal handlers
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 3. In Unix, Which system call creates the new process?
- a) fork
- b) create
- c) new
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 4. A process can be terminated due to
- a) normal exit
- b) fatal error
- c) killed by another process
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 5. What is the ready state of a process?
- a) when process is scheduled to run after some execution
- b) when process is unable to run until some task has been completed
- c) when process is using the CPU
- d) none of the mentioned

View Answer

Answer a

Explanation: When process is unable to run until some task has been completed, the process is in blocked state and if process is using the CPU, it is in running state.

6. What is interprocess communication?

- a) communication within the process
- b) communication between two process
- c) communication between two threads of same process
- d) none of the mentioned

Answer: b

Explanation: None.

- 7. A set of processes is deadlock if
- a) each process is blocked and will remain so forever
- b) each process is terminated
- c) all processes are trying to kill each other
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. A process stack does not contain
- a) Function parameters
- b) Local variables
- c) Return addresses
- d) PID of child process

View Answer

Answer: d

Explanation: None.

- 9. Which system call returns the process identifier of a terminated child?
- a) wait
- b) exit
- c) fork

c) fork
d) get
View Answer

Answer: a

Explanation: None.

- 10. The address of the next instruction to be executed by the current process is provided by the
- a) CPU registers
- b) Program counter
- c) Process stack
- d) Pipe

View Answer

Answer: b

# Operating System Questions and Answers – Process Control Block

b) Program Counter

1. A Process Control Block(PCB) does not contain which of the following:
a) Code
b) Stack
c) Bootstrap program
d) Data
View Answer
Answer: c
Explanation: None.
2. The number of processes completed per unit time is known as
a) Output
b) Throughput
c) Efficiency
d) Capacity
View Answer
Answer: b
Explanation: None.
3. The state of a process is defined by:
a) the final activity of the process
b) the activity just executed by the process
c) the activity to next be executed by the process
d) the current activity of the process
View Answer
Answer: d
Explanation: None.
A CONCULTIVADO V/C/
4. Which of the following is not the state of a process?
a) New
b) Old
c) Waiting
d) Running
View Answer
Answer: b
Explanation: None.
5. The Process Control Block is:
a) Process type variable
b) Data Structure
c) A secondary storage section
d) A Block in memory
View Answer
Answer: b
Explanation: None.
6. The entry of all the PCBs of the current processes is in: a) Process Register

- c) Process Table
- d) Process Unit

Answer: c

Explanation: None.

- 7. The degree of multiprogramming is:
- a) the number of processes executed per unit time
- b) the number of processes in the ready queue
- c) the number of processes in the I/O queue
- d) the number of processes in memory

View Answer

Answer: d

Explanation: None.

- 8. A single thread of control allows the process to perform:
- a) only one task at a time
- b) multiple tasks at a time
- c) only two tasks at a time
- c) all of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. The objective of multiprogramming is to:
- a) Have some process running at all times
- b) Have multiple programs waiting in a queue ready to run

ODEWITHARI

- c) To minimize CPU utilization
- d) None of the mentioned

View Answer

Answer: a Explanation: None.

## Operating System Questions and Answers – Process Scheduling Queues

1. Which of the following do not belong to queues for processes :
a) Job Queue
b) PCB queue
c) Device Queue
d) Ready Queue
View Answer
Answer: b
Explanation: None.
2. When the process issues an I/O request:
a) It is placed in an I/O queue
b) It is placed in a waiting queue
c) It is placed in the ready queue
d) It is placed in the Job queue
View Answer
View Allswei
Answer: a
Explanation: None.
3. When a process terminates:
a) It is removed from all queues
b) It is removed from all, but the job queue
c) Its process control block is de-allocated
d) Its process control block is never de-allocated
View Answer
Answer: a
Explanation: None.
4. What is a long-term scheduler ?
a) It selects which process has to be brought into the ready queue
b) It selects which process has to be executed next and allocates CPU
c) It selects which process to remove from memory by swapping
d) None of the mentioned
View Answer
View Allswer
Answer: a
Explanation: None.
5. If all processes I/O bound, the ready queue will almost always beand the Short term Scheduler will have ato do.
a) full,little
b) full,lot
c) empty,little
d) empty,lot
View Answer
Answer: c
Explanation: None.
6. What is a medium-term scheduler?
6. What is a medium-term scheduler? a) It selects which process has to be brought into the ready queue

- c) It selects which process to remove from memory by swapping d) None of the mentioned
- View Answer

Answer: c

Explanation: None.

- 7. What is a short-term scheduler?
- a) It selects which process has to be brought into the ready queue
- b) It selects which process has to be executed next and allocates CPU
- c) It selects which process to remove from memory by swapping
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

- 8. The primary distinction between the short term scheduler and the long term scheduler is:
- a) The length of their queues
- b) The type of processes they schedule
- c) The frequency of their execution
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 9. The only state transition that is initiated by the user process itself is:
- a) block
- b) wakeup
- c) dispatch
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. In a time-sharing operating system, when the time slot given to a process is completed, the process goes from the running state to the :
- a) Blocked state
- b) Ready state
- c) Suspended state
- d) Terminated state

View Answer

Answer: b

Explanation: None.

- 11. In a multiprogramming environment:
- a) the processor executes more than one process at a time
- b) the programs are developed by more than one person
- c) more than one process resides in the memory
- d) a single user can execute many programs at the same time

View Answer

Answer: c

a) Running state
b) Ready state
c) Suspended state
d) Terminated state
View Answer
Answer: b
Explanation: None.
12. The content of conversional PCD of conversions
13. The context of a process in the PCB of a process does not contain:
a) the value of the CPU registers
b) the process state
c) memory-management information d) context switch time
View Answer
view Answer
Answer: d
Explanation: None.
Explanation 1 voic.
14. Which of the following need not necessarily be saved on a context switch between processes?
a) General purpose registers
b) Translation lookaside buffer
c) Program counter
d) All of the mentioned
View Answer
VIEW Allswei
Answer: b
Explanation: None.
15. Which of the following does not interrupt a running process ?
a) A device
b) Timer
c) Scheduler process
c) Scheduler process d) Power failure
View Answer
Answer: c
Explanation: None.

12. Suppose that a process is in "Blocked" state waiting for some I/O service. When the service is completed, it goes to the :

## **Operating System Questions & Answers – Process Synchronization**

1. Which process can be affected by other processes executing in the system?

a) cooperating process	
b) child process	
c) parent process	
d) init process	
View Answer	
Answer: a	
Explanation: None.	
2. When several processes access the same data concurrently and the outcome of the exe	ecution depends on the particular order in which the
access takes place, is called	
a) dynamic condition	
b) race condition	
c) essential condition	
d) critical condition	
View Answer	
Tion This wei	
Answer: b	
Explanation: None.	
3. If a process is executing in its critical section, then no other processes can be executing	in their critical section. This condition is called
a) mutual exclusion	, in their critical section. This condition is called
b) critical exclusion	
c) synchronous exclusion	
d) asynchronous exclusion	
View Answer	
Answer: a	
Explanation: None.	
Explanation. Polic.	maw/c/
4 377 1 5 64 6 71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4. Which one of the following is a synchronization tool?	
a) thread	
b) pipe	
c) semaphore	
d) socket	
View Answer	
Answer: c	
Explanation: None.	
5.1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
5. A semaphore is a shared integer variable	
a) that can not drop below zero	
b) that can not be more than zero	
c) that can not drop below one	
d) that can not be more than one	
View Answer	
Answer: a	
Explanation: None.	
Explanation: 140ffc.	
6. Mutual exclusion can be provided by the	
a) mutex locks	
a) much locks	

- b) binary semaphores
- c) both mutex locks and binary semaphores
- d) none of the mentioned

Answer: c

Explanation: Binary Semaphores are known as mutex locks.

- 7. When high priority task is indirectly preempted by medium priority task effectively inverting the relative priority of the two tasks, the scenario is called
- a) priority inversion
- b) priority removal
- c) priority exchange
- d) priority modification

View Answer

Answer: a

Explanation: None.

- 8. Process synchronization can be done on
- a) hardware level
- b) software level
- c) both hardware and software level
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 9. A monitor is a module that encapsulates
- a) shared data structures
- b) procedures that operate on shared data structure
- c) synchronization between concurrent procedure invocation
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 10. To enable a process to wait within the monitor,
- a) a condition variable must be declared as condition
- b) condition variables must be used as boolean objects
- c) semaphore must be used
- d) all of the mentioned

View Answer

Answer: a

# **Operating System Questions and Answers – Process Creation**

c) exit d) exec  View Answer  Answer: a  Explanation: None.  3. Cascading termination refers to termination of all child processes before the parent terminates a) Normally b) Abnormally c) Normally or Normally of None of the mentioned View Answer:  Answer: a  Explanation: None.  4. With	<ol> <li>Restricting the child process to a subset of the parent's resources prevents any process from:</li> <li>a) overloading the system by using a lot of secondary storage</li> <li>b) under-loading the system by very less CPU utilization</li> <li>c) overloading the system by creating a lot of sub-processes</li> <li>d) crashing the system by utilizing multiple resources</li> <li>View Answer</li> </ol>
a) wait b) fork c) exit d) exce View Answer  Answer a Explanation: None.  3. Cascading termination refers to termination of all child processes before the parent terminates	
a) Normally b) Abnormally c) Normally or abnormally d) None of the mentioned View Answer  Answer: a  Explanation: None.  4. With	a) wait b) fork c) exit d) exec View Answer Answer: a
Explanation: None.  4. Withonly one process can execute at a time; meanwhile all other process are waiting for the processor. Withnone than one process can be running simultaneously each on a different processor.  a) Multiprocessing, Multiprocessing b) Multiprogramming, Uniprocessing c) Multiprogramming, Multiprocessing d) Uniprogramming, Multiprocessing View Answer  Answer: d  Explanation: None.  5. In UNIX, each process is identified by its: a) Process Control Block b) Device Queue c) Process Identifier d) None of the the mentioned View Answer  Answer: c  Explanation: None.	a) Normally b) Abnormally c) Normally or abnormally d) None of the mentioned
more than one process can be running simultaneously each on a different processor.  a) Multiprocessing, Multiprocessing b) Multiprogramming, Uniprocessing c) Multiprogramming, Multiprocessing d) Uniprogramming, Multiprocessing View Answer  Answer: d Explanation: None.  5. In UNIX, each process is identified by its: a) Process Control Block b) Device Queue c) Process Identifier d) None of the the mentioned View Answer  Answer: c Explanation: None.	
a) Process Control Block b) Device Queue c) Process Identifier d) None of the the mentioned View Answer  Answer: c  Explanation: None.	more than one process can be running simultaneously each on a different processor.  a) Multiprocessing, Multiprogramming b) Multiprogramming, Uniprocessing c) Multiprogramming, Multiprocessing d) Uniprogramming, Multiprocessing View Answer Answer: d
<u> </u>	a) Process Control Block b) Device Queue c) Process Identifier d) None of the the mentioned View Answer
a) A Negative integer, Zero	6. In UNIX, the return value for the fork system call is for the child process and for the parent process.

- b) Zero, A Negative integer
- c) Zero, A nonzero integer
- d) A nonzero integer, Zero

Answer: c

Explanation: None.

- 7. The child process can:
- a) be a duplicate of the parent process
- b) never be a duplicate of the parent process
- c) cannot have another program loaded into it
- d) never have another program loaded into it

View Answer

Answer: a

Explanation: None.

- 8. The child process completes execution, but the parent keeps executing, then the child process is known as:
- a) Orphan
- b) Zombie
- c) Body
- d) Dead

View Answer

Answer: b



#### Operating System Questions and Answers - Inter Process Communication

- 1. Inter process communication:
- a) allows processes to communicate and synchronize their actions when using the same address space
- b) allows processes to communicate and synchronize their actions without using the same address space
- c) allows the processes to only synchronize their actions without communication
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 2. Message passing system allows processes to:
- a) communicate with one another without resorting to shared data
- b) communicate with one another by resorting to shared data
- c) share data
- d) name the recipient or sender of the message

View Answer

Answer: a

Explanation: None.

- 3. An IPC facility provides at least two operations:
- a) write & delete message
- b) delete & receive message
- c) send & delete message
- d) receive & send message

View Answer

Answer: d

Explanation: None.

- 4. Messages sent by a process:
- a) have to be of a fixed size
- b) have to be a variable size
- c) can be fixed or variable sized
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 5. The link between two processes P and Q to send and receive messages is called:
- a) communication link
- b) message-passing link
- c) synchronization link
- d) all of the mentioned

View Answer

Answer: a

- 6. Which of the following are TRUE for direct communication:
- a) A communication link can be associated with N number of process(N = max. number of processes supported by system)
- b) A communication link can be associated with exactly two processes

- c) Exactly N/2 links exist between each pair of processes (N = max. number of processes supported by system)
- d) Exactly two link exists between each pair of processes

Answer: b

Explanation: None.

- 7. In indirect communication between processes P and Q:
- a) there is another process R to handle and pass on the messages between P and Q
- b) there is another machine between the two processes to help communication
- c) there is a mailbox to help communication between P and Q
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 8. In the non blocking send:
- a) the sending process keeps sending until the message is received
- b) the sending process sends the message and resumes operation
- c) the sending process keeps sending until it receives a message
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 9. In the Zero capacity queue:
- a) the queue can store at least one message
- b) the sender blocks until the receiver receives the message
- c) the sender keeps sending and the messages don't wait in the queue
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 10. The Zero Capacity queue:
- a) is referred to as a message system with buffering
- b) is referred to as a message system with no buffering
- c) is referred to as a link
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 11. Bounded capacity and Unbounded capacity queues are referred to as:
- a) Programmed buffering
- b) Automatic buffering
- c) User defined buffering
- d) No buffering

View Answer

Answer: b

# **Operating System Questions and Answers – Remote Procedure Calls**

a) Remote Memory Installationb) Remote Memory Invocation

	_
1. Remote Procedure Calls are used :	
a) for communication between two processes remotely different from each other on the same system	
b) for communication between two processes on the same system	
c) for communication between two processes on separate systems	
d) None of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
Z-panaton rote.	
2. To differentiate the many network services a system supports are used.	
a) Variables	
b) Sockets	
c) Ports	
d) Service names	
View Answer	
Answer: c	
Explanation: None.	
	١
3. RPC provides a(an) on the client side, a separate one for each remote procedure.	
a) stub	
b) identifier	
c) name	
d) process identifier View Answer	
View Allswei	
Answer: a	
Explanation: None.	
ACCULTURED WITH	
4. The stub:	
a) transmits the message to the server where the server side stub receives the message and invokes procedure on the server side	
b) packs the parameters into a form transmittable over the network	
c) locates the port on the server	
d) all of the mentioned	
View Answer	
Answer: d	
Explanation: None.	
Explanation: Note.	
5. To resolve the problem of data representation on different systems RPCs define	
a) machine dependent representation of data	
b) machine representation of data	
c) machine-independent representation of data	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
6. The full form of RMI:	
U. THE TUILIOHHOLIXIVII.	

- c) Remote Method Installation
- d) Remote Method Invocation

Answer: d

Explanation: None.

- 7. The remote method invocation:
- a) allows a process to invoke memory on a remote object
- b) allows a thread to invoke a method on a remote object
- c) allows a thread to invoke memory on a remote object
- d) allows a process to invoke a method on a remote object

View Answer

Answer: b

Explanation: None.

8. A process that is based on IPC mechanism which executes on different systems and can communicate with other processes using message based communication, is called \_\_\_\_\_\_

- a) Local Procedure Call
- b) Inter Process Communication
- c) Remote Procedure Call
- d) Remote Machine Invocation

View Answer

Answer: c



#### **Operating System Questions and Answers – Process Structures**

- 1. The initial program that is run when the computer is powered up is called:
- a) boot program
- b) bootloader
- c) initializer
- d) bootstrap program

View Answer

Answer: d

Explanation: None.

- 2. How does the software trigger an interrupt?
- a) Sending signals to CPU through bus
- b) Executing a special operation called system call
- c) Executing a special program called system program
- d) Executing a special program calle interrupt trigger program

View Answer

Answer: b

Explanation: None.

- 3. What is a trap/exception?
- a) hardware generated interrupt caused by an error
- b) software generated interrupt caused by an error
- c) user generated interrupt caused by an error
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 4. What is an ISR?
- a) Information Service Request
- b) Interrupt Service Request
- c) Interrupt Service Routine
- d) Information Service Routine

View Answer

Answer: c

Explanation: None.

- 5. An interrupt vector
- a) is an address that is indexed to an interrupt handler
- b) is a unique device number that is indexed by an address
- c) is a unique identity given to an interrupt
- d) none of the mentioned

View Answer

Answer: a

- 6. DMA is used for:
- a) High speed devices(disks and communications network)
- b) Low speed devices

- c) Utilizing CPU cycles
- d) All of the mentioned

Answer: a

Explanation: None.

- 7. In a memory mapped input/output:
- a) the CPU uses polling to watch the control bit constantly, looping to see if device is ready
- b) the CPU writes one data byte to the data register and sets a bit in control register to show that a byte is available
- c) the CPU receives an interrupt when the device is ready for the next byte
- d) the CPU runs a user written code and does accordingly

View Answer

Answer: b

Explanation: None.

- 8. In a programmed input/output(PIO):
- a) the CPU uses polling to watch the control bit constantly, looping to see if device is ready
- b) the CPU writes one data byte to the data register and sets a bit in control register to show that a byte is available
- c) the CPU receives an interrupt when the device is ready for the next byte
- d) the CPU runs a user written code and does accordingly

View Answer

Answer: a

Explanation: None.

- 9. In an interrupt driven input/output:
- a) the CPU uses polling to watch the control bit constantly, looping to see if device is ready
- b) the CPU writes one data byte to the data register and sets a bit in control register to show that a byte is available
- c) the CPU receives an interrupt when the device is ready for the next byte
- d) the CPU runs a user written code and does accordingly

View Answer

Answer: c

Explanation: None.

- 10. In the layered approach of Operating Systems:
- a) Bottom Layer(0) is the User interface
- b) Highest Layer(N) is the User interface
- c) Bottom Layer(N) is the hardware
- d) Highest Layer(N) is the hardware

View Answer

Answer: b

Explanation: None.

- 11. How does the Hardware trigger an interrupt?
- a) Sending signals to CPU through system bus
- b) Executing a special program called interrupt program
- c) Executing a special program called system program
- d) Executing a special operation called system call

View Answer

Answer: a

- 12. Which operation is performed by an interrupt handler?
- a) Saving the current state of the system
- b) Loading the interrupt handling code and executing it
- c) Once done handling, bringing back the system to the original state it was before the interrupt occurred
- d) All of the mentioned

Answer: d



## Operating System Questions & Answers – CPU Scheduling

a) all process

b) currently running process

1. Which module gives control of the CPU to the process selected by the short-term scheduler?
<ul><li>a) dispatcher</li><li>b) interrupt</li></ul>
c) scheduler
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
Explanation. Polic.
2. The processes that are residing in main memory and are ready and waiting to execute are kept on a list called
a) job queue
b) ready queue
c) execution queue
d) process queue
View Answer
Answer: b
Explanation: None.
3. The interval from the time of submission of a process to the time of completion is termed as
a) waiting time
b) turnaround time
c) response time
d) throughput
View Answer
Answer: b
Explanation: None.
4. Which scheduling algorithm allocates the CPU first to the process that requests the CPU first?  a) first-come, first-served scheduling
b) shortest job scheduling
c) priority scheduling
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
5. In priority scheduling algorithm
a) CPU is allocated to the process with highest priority
b) CPU is allocated to the process with lowest priority
c) Equal priority processes can not be scheduled d) None of the mentioned
View Answer
VICW Allowed
Answer: a
Explanation: None.
6. In priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared with the priority of

- c) parent process
- d) init process

Answer: b

Explanation: None.

- 7. Time quantum is defined in
- a) shortest job scheduling algorithm
- b) round robin scheduling algorithm
- c) priority scheduling algorithm
- d) multilevel queue scheduling algorithm

View Answer

Answer: b

Explanation: None.

- 8. Process are classified into different groups in
- a) shortest job scheduling algorithm
- b) round robin scheduling algorithm
- c) priority scheduling algorithm
- d) multilevel queue scheduling algorithm

View Answer

Answer: d

Explanation: None.

- 9. In multilevel feedback scheduling algorithm
- a) a process can move to a different classified ready queue
- b) classification of ready queue is permanent
- c) processes are not classified into groups
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. Which one of the following can not be scheduled by the kernel?
- a) kernel level thread
- b) user level thread
- c) process
- d) none of the mentioned

View Answer

Answer: b

Explanation: User level threads are managed by thread library and the kernel in unaware of them.

# Operating System Questions and Answers - CPU Scheduling Benefits 1. CPU scheduling is the basis of a) multiprocessor systems b) multiprogramming operating systems c) larger memory sized systems d) none of the mentioned View Answer Answer: b Explanation: None. 2. With multiprogramming, is used productively. a) time b) space c) money d) all of the mentioned View Answer Answer: a Explanation: None. 3. The two steps of a process execution are: a) I/O & OS Burst b) CPU & I/O Burst c) Memory & I/O Burst d) OS & Memory Burst View Answer Answer: b Explanation: None. 4. An I/O bound program will typically have: a) a few very short CPU bursts b) many very short I/O bursts c) many very short CPU bursts d) a few very short I/O bursts View Answer Answer: c Explanation: None. 5. A process is selected from the \_\_\_\_\_ queue by the \_\_\_\_\_ scheduler, to be executed. a) blocked, short term b) wait, long term

6. In the following cases non – preemptive scheduling occurs :

c) ready, short termd) ready, long termView Answer

Answer: c Explanation: None.

- a) When a process switches from the running state to the ready state
- b) When a process goes from the running state to the waiting state

c) When a process switches from the waiting state to the ready state d) All of the mentioned View Answer Answer: b Explanation: There is no other choice. 7. The switching of the CPU from one process or thread to another is called: a) process switch b) task switch c) context switch d) all of the mentioned View Answer Answer: d Explanation: None. 8. Dispatch latency is: a) the speed of dispatching a process from running to the ready state b) the time of dispatching a process from running to ready state and keeping the CPU idle c) the time to stop one process and start running another one d) none of the mentioned View Answer Answer: c Explanation: None. 9. Scheduling is done so as to: a) increase CPU utilization b) decrease CPU utilization c) keep the CPU more idle d) None of the mentioned View Answer Answer: a Explanation: None. 10. Scheduling is done so as to: a) increase the throughput b) decrease the throughput c) increase the duration of a specific amount of work d) None of the mentioned View Answer Answer: a Explanation: None. 11. Turnaround time is: a) the total waiting time for a process to finish execution b) the total time spent in the ready queue c) the total time spent in the running queue d) the total time from the completion till the submission of a process View Answer

Answer: d Explanation: None.

- 12. Scheduling is done so as to:
- a) increase the turnaround time
- b) decrease the turnaround time
- c) keep the turnaround time same
- d) there is no relation between scheduling and turnaround time

Answer: b

Explanation: None.

- 13. Waiting time is:
- a) the total time in the blocked and waiting queues
- b) the total time spent in the ready queue
- c) the total time spent in the running queue
- d) the total time from the completion till the submission of a process

View Answer

Answer: b

Explanation: None.

- 14. Scheduling is done so as to:
- a) increase the waiting time
- b) keep the waiting time the same
- c) decrease the waiting time
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 15. Response time is:
- a) the total time taken from the submission time till the completion time
- b) the total time taken from the submission time till the first response is produced
- c) the total time taken from submission time till the response is output
- d) none of the mentioned

View Answer

Answer: b

#### Operating System Questions and Answers - CPU Scheduling Algorithms-1

- 1. Round robin scheduling falls under the category of:
- a) Non preemptive scheduling
- b) Preemptive scheduling
- c) All of the mentioned
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

- 2. With round robin scheduling algorithm in a time shared system,
- a) using very large time slices converts it into First come First served scheduling algorithm
- b) using very small time slices converts it into First come First served scheduling algorithm
- c) using extremely small time slices increases performance
- d) using very small time slices converts it into Shortest Job First algorithm

View Answer

Answer: a

Explanation: All the processes will be able to get completed.

- 3. The portion of the process scheduler in an operating system that dispatches processes is concerned with:
- a) assigning ready processes to CPU
- b) assigning ready processes to waiting queue
- c) assigning running processes to blocked queue
- d) all of the mentioned

View Answer

Answer: a

Explanation: None.

- 4. Complex scheduling algorithms:
- a) are very appropriate for very large computers
- b) use minimal resources
- c) use many resources
- d) all of the mentioned

View Answer

Answer: a

Explanation: Large computers are overloaded with greater number of processes.

- 5. The FIFO algorithm:
- a) first executes the job that came in last in the queue
- b) first executes the job that came in first in the queue
- c) first executes the job that needs minimal processor
- d) first executes the job that has maximum processor needs

View Answer

Answer: b

- 6. The strategy of making processes that are logically runnable to be temporarily suspended is called:
- a) Non preemptive scheduling
- b) Preemptive scheduling

c) Shortest job first d) First come First served View Answer
Answer: b Explanation: None.
7. Scheduling is:
a) allowing a job to use the processor
b) making proper use of processor c) all of the mentioned
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
8. There are 10 different processes running on a workstation. Idle processes are waiting for an input event in the input queue. Busy processes are scheduled with the Round-Robin time sharing method. Which out of the following quantum times is the best value for small response times, i
the processes have a short runtime, e.g. less than 10ms?
a) $tQ = 15ms$
b) $tQ = 40 ms$
c) $tQ = 45 ms$
d) tQ = 50ms View Answer
VIEW Allswei
Answer: a
Explanation: None.
9. Orders are processed in the sequence they arrive ifrule sequences the jobs. a) earliest due date b) slack time remaining
c) first come, first served
d) critical ratio View Answer
Answer: c
Explanation: None.
10. Which of the following algorithms tends to minimize the process flow time?
a) First come First served
b) Shortest Job First
c) Earliest Deadline First
d) Longest Job First
View Answer
Answer: b
Explanation: None.
11. Under multiprogramming, turnaround time for short jobs is usually and that for long jobs is slightly
a) Lengthened; Shortened
h) Shortened: Lengthened
b) Shortened; Lengthened c) Shortened: Shortened
c) Shortened; Shortened
c) Shortened; Shortened d) Shortened; Unchanged

#### Explanation: None.

- 12. Which of the following statements are true ? (GATE 2010)
- I. Shortest remaining time first scheduling may cause starvation
- II. Preemptive scheduling may cause starvation
- III. Round robin is better than FCFS in terms of response time
- a) I only
- b) I and III only
- c) II and III only
- d) I, II and III

View Answer

#### Answer: d

Explanation: I) Shortest remaining time first scheduling is a preemptive version of shortest job scheduling. It may cause starvation as shorter processes may keep coming and a long CPU burst process never gets CPU.

II) Preemption may cause starvation. If priority based scheduling with preemption is used, then a low priority process may never get CPU.

III) Round Robin Scheduling improves response time as all processes get CPU after a specified time.



# Operating System Questions and Answers – CPU Scheduling Algorithms-2

1. The most optimal scheduling algorithm is :

a) FCFS – First come First served	
b) SJF – Shortest Job First	
c) RR – Round Robin	
d) None of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
Explanation. Polic.	
2. The real difficulty with SJF in short term scheduling is :	
a) it is too good an algorithm	
b) knowing the length of the next CPU request	
c) it is too complex to understand	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
3. The FCFS algorithm is particularly troublesome for	
a) time sharing systems	
b) multiprogramming systems	
c) multiprocessor systems	
d) operating systems	
View Answer	
Answer: b	
Explanation: In a time sharing system, each user needs to get a share of the CPU at regular intervals.	
Assuming the above process being scheduled with the SJF scheduling algorithm:	
a) The waiting time for process P1 is 3ms	
b) The waiting time for process P1 is 0ms	
c) The waiting time for process P1 is 16ms	
d) The waiting time for process P1 is 9ms	
View Answer	
Answer: a	
Explanation: None.	
5. Preemptive Shortest Job First scheduling is sometimes called:	
a) Fast SJF scheduling	
b) EDF scheduling – Earliest Deadline First	
c) HRRN scheduling – Highest Response Ratio Next d) SRTN scheduling – Shortest Remaining Time Next	
A) SRTN scheduling – Shortest Remaining Time Next View Answer	
VIEW AIISWEI	
Answer: d	
Explanation: None.	
6. An SJF algorithm is simply a priority algorithm where the priority is:	
a) the predicted next CPU burst	
b) the inverse of the predicted next CPU burst	

- c) the current CPU burst
- d) anything the user wants

Answer: a

Explanation: The larger the CPU burst, the lower the priority.

- 7. One of the disadvantages of the priority scheduling algorithm is that:
- a) it schedules in a very complex manner
- b) its scheduling takes up a lot of time
- c) it can lead to some low priority process waiting indefinitely for the CPU
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 8. 'Aging' is:
- a) keeping track of cache contents
- b) keeping track of what pages are currently residing in memory
- c) keeping track of how many times a given page is referenced
- d) increasing the priority of jobs to ensure termination in a finite time

View Answer

Answer: d

Explanation: None.

- 9. A solution to the problem of indefinite blockage of low priority processes is :
- a) Starvation
- b) Wait queue
- c) Ready queue
- d) Aging

View Answer

Answer: d

Explanation: None.

- 10. Which of the following statements are true ? (GATE 2010)
- i) Shortest remaining time first scheduling may cause starvation
- ii) Preemptive scheduling may cause starvation
- iii) Round robin is better than FCFS in terms of response time
- a) ionly
- b) i and iii only
- c) ii and iii only
- d) i, ii and iii

View Answer

Answer: d

Explanation: None.

- 11. Which of the following scheduling algorithms gives minimum average waiting time?
- a) FCFS
- b) SJF
- c) Round robin
- d) Priority

View Answer

Answer: b Explanation: None.



# Operating System Questions and Answers – The Critical Section (CS) Problem and Solutions

Concurrent access to shared data may result in :	
a) data consistency	
b) data insecurity	
c) data inconsistency	
d) none of the mentioned	
View Answer	
VICW MIISWEI	
Answer: c	
Explanation: None.	
2. A situation where several processes access and manipulate the same data concu	irrently and the outcome of the execution depends on the
particular order in which access takes place is called:	
a) data consistency	
b) race condition	
c) aging	
d) starvation	
View Answer	
Answer: b	
Explanation: None.	
a) program b) critical section c) non – critical section d) synchronizing View Answer	
Answer: b Explanation: None.	
4. The following three conditions must be satisfied to solve the critical sec <mark>tion prob</mark> a) Mutual Exclusion	olem:
b) Progress	
c) Bounded Waiting	
d) All of the mentioned	
View Answer	
Answer: d	
Explanation: None.	
5. Mutual exclusion implies that :	
a) if a process is executing in its critical section, then no other process must be exec	
b) if a process is executing in its critical section, then other processes must be execu	
c) if a process is executing in its critical section, then all the resources of the system	must be blocked until it finishes execution
d) none of the mentioned	
d) none of the mentioned View Answer	

a) after a process has made a request to enter its critical section and before the request is granted

		. 1				• .		. •
h	) when	another	nrocess	10	1n	1fc	critical	section
$\boldsymbol{\sigma}$	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	anounci	process	10	111	113	critical	SCCHOIL

- c) before a process has made a request to enter its critical section
- d) none of the mentioned

Explanation: None.

7. A minimum of \_\_\_\_\_variable(s) is/are required to be shared between processes to solve the critical section problem.

a) one

b) two

c) three

d) four

View Answer

Answer: b

Explanation: None.

8. In the bakery algorithm to solve the critical section problem:

- a) each process is put into a queue and picked up in an ordered manner
- b) each process receives a number (may or may not be unique) and the one with the lowest number is served next
- c) each process gets a unique number and the one with the highest number is served next
- d) each process gets a unique number and the one with the lowest number is served next

View Answer

Answer: b



# $Operating\ System\ Questions\ and\ Answers-Semaphores-1$

b) they require busy waiting

1. An un-interruptible unit is known as:
a) single
b) atomic
c) static
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
2. The TestAndSet instruction is executed :
a) after a particular process
b) periodically
c) atomically
d) none of the mentioned
View Answer
VICW Alliswei
Answer: c
Explanation: None.
3. Semaphore is a/anto solve the critical section problem.
a) hardware for a system
b) special program for a system
c) integer variable
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
T. CODEWITH ADDAY'C'
4. The two atomic operations permissible on semaphores are :
a) wait UUUL III III III III III III III III II
b) stop
c) hold
d) none of the mentioned View Answer
View Allswei
Answer: a
Explanation: None.
5. Spinlocks are:
a) CPU cycles wasting locks over critical sections of programs
b) Locks that avoid time wastage in context switches
c) Locks that work better on multiprocessor systems
d) All of the mentioned
View Answer
Answer: d
Explanation: None.
6. The main disadvantage of spinlocks is that:
a) they are not sufficient for many process

c) they are unreliable sometimes d) they are too complex for programmers View Answer	
Answer: b Explanation: None.	
	m call.
a) stop()	
b) block()	
c) hold()	
d) wait()	
View Answer	
Answer: b	
Explanation: None.	
8. The signal operation of the semaphore basically works on the basicsyst	em call.
a) continue()	ciii caii.
b) wakeup()	
c) getup()	
d) start()	
View Answer	
Answer: b	
Explanation: None.	
9. If the semaphore value is negative : a) its magnitude is the number of processes waiting on that semaphore b) it is invalid	
c) no operation can be further performed on it until the signal operation is performed	on it
d) none of the mentioned	
View Answer Answer: a	
Explanation: None.	
<ul><li>10. The code that changes the value of the semaphore is :</li><li>a) remainder section code</li><li>b) non – critical section code</li></ul>	
c) critical section code	
d) none of the mentioned	
View Answer	
Anguana	
Answer: c Explanation: None.	
Explanation. Polic.	
How many times will P0 print '0'?	
a) At least twice	
b) Exactly twice	
c) Exactly thrice	
d) Exactly once	
View Answer	
Answer: a	
Explanation: None.	
•	

The code for P10 is identical except that it uses V(mutex) instead of P(mutex). What is the largest number of processes that can be inside the critical section at any moment (the mutex being initialized to 1)?

a) 1

b) 2

c) 3

d) None of the mentioned

View Answer

#### Answer: c

Explanation: Any one of the 9 processes can get into critical section after executing P(mutex) which decrements the mutex value to 0. At this time P10 can enter critical section by incrementing the value to 1. Now any of the 9 processes can enter the critical section by again decrementing the mutex value to 0. None of the remaining processes can get into their critical sections.

#### Remainder Section

Here, w1 and w2 are shared variables, which are initialized to false. Which one of the following statements is TRUE about the above construct?

- a) It does not ensure mutual exclusion
- b) It does not ensure bounded waiting
- c) It requires that processes enter the critical section in strict alternation
- d) It does not prevent deadlocks, but ensures mutual exclusion

View Answer

Answer: d Explanation: None.



# Operating System Questions and Answers – Semaphores – 2

Answer: b

value by 1 every time.

1. What will happen if a non-recursive mutex is locked more than once ?
a) Starvation
b) Deadlock
c) Aging
d) Signaling
View Answer
Answer: b
Explanation: If a thread which had already locked a mutex, tries to lock the mutex again, it will enter into the waiting list of that mutex, which
results in deadlock. It is because no other thread can unlock the mutex.
2. A semaphore:
a) is a binary mutex
b) must be accessed from only one process
c) can be accessed from multiple processes
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
Explanation. Profic.
3. The two kinds of semaphores are:
a) mutex & counting
b) binary & counting
c) counting & decimal
d) decimal & binary
View Answer
Answer: b
Explanation: None.
T CI IIIIF WITH MARKAY 12 I
4. A mutex :
a) is a binary mutex
b) must be accessed from only one process
c) can be accessed from multiple processes
d) None of the mentioned
View Answer
Answer: b
Explanation: None.
5. At a particular time of computation the value of a counting semaphore is 7. Then 20 P operations and 15 V operations were completed on
this semaphore. The resulting value of the semaphore is : (GATE 1987)
a) 42
b) 2
c) 7
d) 12
View Answer

Explanation: P represents Wait and V represents Signal. P operation will decrease the value by 1 every time and V operation will increase the

6. A binary semaphore is a semaphore with integer values :
a) 1
b) -1
c) 0.8
d) 0.5
View Answer
Answer: a Explanation: None.
X is set to 5 before either process begins execution. As usual, statements within a process are executed sequentially, but statements in process A may execute in any order with respect to statements in process B.  How many different values of X are possible after both processes finish executing?  a) two b) three
c) four
d) eight View Answer Answer: c
Explanation: Here are the possible ways in which statements from A and B can be interleaved.  A1 A2 B1 B2: X = 11
A1 B1 A2 B2: X = 6
A1 B1 B2 A2: X = 10
B1 A1 B2 A2: X = 10
B1 A1 A2 B2: X = 6
B1 B2 A1 A2: X = 12.
T is set to 0 before either process begins execution and, as before, X is set to 5.
Now, how many different values of X are possible after both processes finish executing?
a) one
b) two
c) three
d) four
d) four View Answer
Answer: a
Explanation: The semaphore T ensures that all the statements from A finish execution before B begins. So now there is only one way in which
statements from A and B can be interleaved:
A1 A2 B1 B2: X = 11.
9. Semaphores are mostly used to implement:
a) System calls
b) IPC mechanisms
c) System protection
d) None of the mentioned
View Answer
Answer: b
Explanation: None.
10. Spinlocks are intended to provideonly.
a) Mutual Exclusion
b) Bounded Waiting
c) Aging
d) Progress
View Answer

Answer: b Explanation: None.



### Operating System Questions and Answers - Classic Synchronization Problems

1. The bounded buffer problem is also known as :

a) Readers – Writers problem
b) Dining – Philosophers problem
c) Producer – Consumer problem
d) None of the mentioned

View Answer

Answer: c Explanation: None.

2. In the bounded buffer problem, there are the empty and full semaphores that:
a) count the number of empty and full buffers
b) count the number of empty and full memory spaces
c) count the number of empty and full queues
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
3. In the bounded buffer problem:
a) there is only one buffer
b) there are n buffers (n being greater than one but finite)
c) there are infinite buffers
d) the buffer size is bounded
View Answer
Answer: b
Explanation: None.
4. To ensure difficulties do not arise in the readers – writers problem, are given exclusive access to the shared object.
a) readers
b) writers
c) readers and writers
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
5. The dining – philosophers problem will occur in case of :
a) 5 philosophers and 5 chopsticks
b) 4 philosophers and 5 chopsticks
c) 3 philosophers and 5 chopsticks
d) 6 philosophers and 5 chopsticks
View Answer
A
Answer: a
Explanation: None.
6. A deadlock free solution to the dining philosophers problem:
a) necessarily eliminates the possibility of starvation
b) does not necessarily eliminate the possibility of starvation
o, does not necessarily emininate the possionity of starvation

- c) eliminates any possibility of any kind of problem further
- d) none of the mentioned

Answer: b

Explanation: None.

In this situation:

- a) a deadlock will occur
- b) processes will starve to enter critical section
- c) several processes maybe executing in their critical section
- d) all of the mentioned

View Answer

Answer: c

Explanation: None.

- a) a deadlock will occur
- b) processes will starve to enter critical section
- c) several processes maybe executing in their critical section
- d) all of the mentioned

View Answer

Answer: a

Explanation: None.

Which of the following statements describes properties achieved?

CODEWITHAR

- a) Mutual exclusion but not progress
- b) Progress but not mutual exclusion
- c) Neither mutual exclusion nor progress
- d) Both mutual exclusion and progress

View Answer

Answer: d

# **Operating System Questions and Answers – Monitors** 1. A monitor is a type of: a) semaphore b) low level synchronization construct c) high level synchronization construct d) none of the mentioned View Answer Answer: c Explanation: None. 2. A monitor is characterized by: a) a set of programmer defined operators b) an identifier c) the number of variables in it d) all of the mentioned View Answer Answer: a Explanation: None. 3. A procedure defined within a can access only those variables declared locally within the and its formal parameters. a) process, semaphore b) process, monitor c) semaphore, semaphore d) monitor, monitor View Answer Answer: d Explanation: None. 4. The monitor construct ensures that: a) only one process can be active at a time within the monitor b) n number of processes can be active at a time within the monitor (n being greater than 1) c) the queue has only one process in it at a time d) all of the mentioned View Answer Answer: a Explanation: None. 5. The operations that can be invoked on a condition variable are : a) wait & signal

Answer: a

b) hold & waitc) signal & holdd) continue & signalView Answer

- 6. The process invoking the wait operation is :
- a) suspended until another process invokes the signal operation
- b) waiting for another process to complete before it can itself call the signal operation

- c) stopped until the next process in the queue finishes execution
- d) none of the mentioned

Answer: a

Explanation: None.

- 7. If no process is suspended, the signal operation:
- a) puts the system into a deadlock state
- b) suspends some default process' execution
- c) nothing happens
- d) the output is unpredictable

View Answer

Answer: c



# Operating System Questions and Answers – Atomic Transactions

a) before the corresponding log record is written out to stable storage

A collection of instructions that performs a single logical function is called:     a) transaction     b) operation     c) function     d) all of the mentioned     View Answer	
Answer: a Explanation: None.	
2. A terminated transaction that has completed its execution successfully is otherwise it is	
3. The state of the data accessed by an aborted transaction must be restored to what it was just before the transaction start restoration is known asof transaction.  a) safety b) protection c) roll – back d) revert – back View Answer	ed executing. This
Answer: c Explanation: None.  4. Write ahead logging is a way:	/>
a) to ensure atomicity b) to keep data consistent c) that records data on stable storage d) all of the mentioned View Answer Answer: d	
Explanation: None.	
5. In the write ahead logging a is maintained. a) a memory b) a system c) a disk d) a log record View Answer	
Answer: d Explanation: None.	
6. An actual update is not allowed to a data item:	

b) after the corresponding log record is written out to stable storage	
c) until the whole log record has been checked for inconsistencies	
d) all of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
7. The yards and gods consections must be a second to suggest the horizon around the failure account during	
7. The undo and redo operations must beto guarantee correct behaviour, even if a failure occurs during a) idempotent	recovery process.
b) easy	
c) protected	L.
d) all of the mentioned	
View Answer	
VIEW Allswei	
Answer: a	
Explanation: Idempotent – Multiple executions of an operation have the same result as does one execution.	
Explanation, temporent instance executions of an operation have the static result as does one execution.	
8. The system periodically performs checkpoints that consists of the following operation(s):	
a) Putting all the log records currently in main memory onto stable storage	
b) putting all modified data residing in main memory onto stable storage	
c) putting a log record onto stable storage	
d) all of the mentioned	
View Answer	
TOW THIS WEI	
Answer: d	
Explanation: None.	
9. Consider a transaction T1 that committed prior to checkpoint. The <t1 commits=""> record appears in the log before record. Any modifications made by T1 must have been written to the stable storage either with the checkpoint or prior time:  a) There is a need to perform an undo operation on T1  b) There is a need to perform a redo operation on T1  c) There is no need to perform an undo and redo operation on T1  d) All of the mentioned  View Answer  Answer: c  Explanation: None.</t1>	
10.0 11.11.1.11	
10. Serializable schedules are ones where: a) concurrent execution of transactions is equivalent to the transactions executed serially	
b) the transactions can be carried out one after the other	
c) a valid result occurs after execution transactions	
d) none of the mentioned	
View Answer	
VICW IMISWCI	
Answer: a	
Explanation: None.	
11. A locking protocol is one that :	
a) governs how locks are acquired	
b) governs how locks are released	
c) governs how locks are acquired and released	
d) none of the mentioned	

Answer: c

Explanation: None.

- 12. The two phase locking protocol consists of:
- a) growing & shrinking phase
- b) shrinking & creation phase
- c) creation & growing phase
- d) destruction & creation phase

View Answer

Answer: a Explanation: None.

- 13. The growing phase is a phase in which:
- a) A transaction may obtain locks, but does not release any
- b) A transaction may obtain locks, and releases a few or all of them
- c) A transaction may release locks, but does not obtain any new locks
- d) A transaction may release locks, and does obtain new locks

View Answer

Answer: a

Explanation: None.

- 14. The shrinking phase is a phase in which:
- a) A transaction may obtain locks, but does not release any
- b) A transaction may obtain locks, and releases a few or all of them
- c) A transaction may release locks, but does not obtain any new locks
- d) A transaction may release locks, and does obtain new locks

View Answer

Answer: c

Explanation: None.

- 15. Which of the following concurrency control protocols ensure both conflict serializability and freedom from deadlock?
- I) 2-phase locking
- II) Timestamp ordering
- a) I only
- b) II only
- c) Both I and II
- d) Neither I nor II

View Answer

Answer: b

#### Operating System Questions & Answers - Deadlock

- 1. What is the reusable resource?
- a) that can be used by one process at a time and is not depleted by that use
- b) that can be used by more than one process at a time
- c) that can be shared between various threads
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 2. Which of the following condition is required for deadlock to be possible?
- a) mutual exclusion
- b) a process may hold allocated resources while awaiting assignment of other resources
- c) no resource can be forcibly removed from a process holding it
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 3. A system is in the safe state if
- a) the system can allocate resources to each process in some order and still avoid a deadlock
- b) there exist a safe sequence
- c) all of the mentioned
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 4. The circular wait condition can be prevented by
- a) defining a linear ordering of resource types
- b) using thread
- c) using pipes
- d) all of the mentioned

View Answer

Answer: a

Explanation: None.

- 5. Which one of the following is the deadlock avoidance algorithm?
- a) banker's algorithm
- b) round-robin algorithm
- c) elevator algorithm
- d) karn's algorithm

View Answer

Answer: a

- 6. What is the drawback of banker's algorithm?
- a) in advance processes rarely know that how much resource they will need
- b) the number of processes changes as time progresses

- c) resource once available can disappear
- d) all of the mentioned

Answer: d

Explanation: None.

- 7. For effective operating system, when to check for deadlock?
- a) every time a resource request is made
- b) at fixed time intervals
- c) every time a resource request is made at fixed time intervals
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 8. A problem encountered in multitasking when a process is perpetually denied necessary resources is called
- a) deadlock
- b) starvation
- c) inversion
- d) aging

View Answer

Answer: b

Explanation: None.

- 9. Which one of the following is a visual (mathematical) way to determine the deadlock occurrence?
- a) resource allocation graph
- b) starvation graph
- c) inversion graph
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. To avoid deadlock
- a) there must be a fixed number of resources to allocate
- b) resource allocation must be done only once
- c) all deadlocked processes must be aborted
- d) inversion technique can be used

View Answer

Answer: a

### Operating System Questions and Answers - Deadlock Prevention

1.	The numl	er of	resources	requested	by a	process	:
----	----------	-------	-----------	-----------	------	---------	---

- a) must always be less than the total number of resources available in the system
- b) must always be equal to the total number of resources available in the system
- c) must not exceed the total number of resources available in the system
- d) must exceed the total number of resources available in the system

View Answer

Answer: c

Explanation: None.

- 2. The request and release of resources are
- a) command line statements
- b) interrupts
- c) system calls
- d) special programs

View Answer

Answer: c

Explanation: None.

- 3. Multithreaded programs are:
- a) lesser prone to deadlocks
- b) more prone to deadlocks
- c) not at all prone to deadlocks
- d) none of the mentioned

View Answer

Answer: b

Explanation: Multiple threads can compete for shared resources.

- 4. For a deadlock to arise, which of the following conditions must hold simultaneously?
- a) Mutual exclusion
- b) No preemption
- c) Hold and wait
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 5. For Mutual exclusion to prevail in the system:
- a) at least one resource must be held in a non sharable mode
- b) the processor must be a uniprocessor rather than a multiprocessor
- c) there must be at least one resource in a sharable mode
- d) all of the mentioned

View Answer

Answer: a

Explanation: If another process requests that resource (non – shareable resource), the requesting process must be delayed until the resource has been released.

- 6. For a Hold and wait condition to prevail:
- a) A process must be not be holding a resource, but waiting for one to be freed, and then request to acquire it

- b) A process must be holding at least one resource and waiting to acquire additional resources that are being held by other processes
- c) A process must hold at least one resource and not be waiting to acquire additional resources
- d) None of the mentioned

Answer: b

Explanation: None.

- 7. Deadlock prevention is a set of methods:
- a) to ensure that at least one of the necessary conditions cannot hold
- b) to ensure that all of the necessary conditions do not hold
- c) to decide if the requested resources for a process have to be given or not
- d) to recover from a deadlock

View Answer

Answer: a

Explanation: None.

- 8. For non sharable resources like a printer, mutual exclusion:
- a) must exist
- b) must not exist
- c) may exist
- d) none of the mentioned

View Answer

Answer: a

Explanation: A printer cannot be simultaneously shared by several processes.

- 9. For sharable resources, mutual exclusion:
- a) is required
- b) is not required
- c) may be or may not be required
- c) none of the mentioned

View Answer

Answer: b

Explanation: They do not require mutually exclusive access, and hence cannot be involved in a deadlock.

- 10. To ensure that the hold and wait condition never occurs in the system, it must be ensured that:
- a) whenever a resource is requested by a process, it is not holding any other resources
- b) each process must request and be allocated all its resources before it begins its execution
- c) a process can request resources only when it has none
- d) all of the mentioned

View Answer

Answer: d

Explanation: c - A process may request some resources and use them. Before it can can request any additional resources, however it must release all the resources that it is currently allocated.

- 11. The disadvantage of a process being allocated all its resources before beginning its execution is:
- a) Low CPU utilization
- b) Low resource utilization
- c) Very high resource utilization
- d) None of the mentioned

View Answer

Answer: b

#### Explanation: None.

- 12. To ensure no preemption, if a process is holding some resources and requests another resource that cannot be immediately allocated to it:
- a) then the process waits for the resources be allocated to it
- b) the process keeps sending requests until the resource is allocated to it
- c) the process resumes execution without the resource being allocated to it
- d) then all resources currently being held are preempted

View Answer

Answer: d

Explanation: None.

- 13. One way to ensure that the circular wait condition never holds is to:
- a) impose a total ordering of all resource types and to determine whether one precedes another in the ordering
- b) to never let a process acquire resources that are held by other processes
- c) to let a process wait for only one resource at a time
- d) all of the mentioned

View Answer

Answer: a



# ${\bf Operating\ System\ Questions\ and\ Answers-Deadlock\ Avoidance}$

Each request requires that the system consider the	to decide whether the current request can be satisfied or must wait to
avoid a future possible deadlock.	
a) resources currently available	
b) processes that have previously been in the system	
c) resources currently allocated to each process	
d) future requests and releases of each process	
View Answer	
Answer: a	
Explanation: None.	
Explanation: I voite.	
2. Given a priori information about thenumber of re	sources of each type that maybe requested for each process, it is possible to
construct an algorithm that ensures that the system will never	
a) minimum	a chief a deadlock state.
b) average	
c) maximum	
d) approximate	
View Answer	
VICW THIS WCI	
Answer: c	
Explanation: None.	
3. A deadlock avoidance algorithm dynamically examines the	to ensure that a circular wait condition can never exist.
a) resource allocation state	
b) system storage state	
c) operating system	
d) resources	
View Answer	
Answer: a	
Explanation: Resource allocation states are used to maintain the	availability of the already and current available resources.
* SUUDE WHI	nanna i 3/2 i
4. A state is safe, if:	
a) the system does not crash due to deadlock occurrence	
b) the system can allocate resources to each process in some or	rder and still avoid a deadlock
c) the state keeps the system protected and safe	
d) all of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
5. A system is in a safe state only if there exists a:	
a) safe allocation	
b) safe resource	
c) safe sequence	
d) all of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
6. All unsafe states are :	

a) deadlocks b) not deadlocks c) fatal d) none of the mentioned View Answer
Answer: b Explanation: None.
Which of the following sequence is a safe sequence ? a) P0, P1, P2
b) P1, P2, P0
c) P2, P0, P1
d) P1, P0, P2
View Answer
Answer: d
Explanation: None.
8. If no cycle exists in the resource allocation graph:
a) then the system will not be in a safe state b) then the system will be in a safe state
c) all of the mentioned
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
<ul><li>9. The resource allocation graph is not applicable to a resource allocation system:</li><li>a) with multiple instances of each resource type</li></ul>
b) with a single instance of each resource type
c) single & multiple instance of each resource type
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
10. The Banker's algorithm is than the resource allocation graph algorithm.
a) less efficient
b) more efficient
c) equal
d) none of the mentioned
View Answer
Answer: a Explanation: None.
Explanation: None.
11. The data structures available in the Banker's algorithm are :
a) Available
b) Need
c) Allocation
d) All of the mentioned
View Answer

Answer: d

#### Explanation: None.

- 12. The content of the matrix Need is:
- a) Allocation Available
- b) Max Available
- c) Max Allocation
- d) Allocation Max

View Answer

Answer: c

Explanation: None.

The sequence <P1, P3, P4, P2, P0> leads the system to:

- a) an unsafe state
- b) a safe state
- c) a protected state
- d) a deadlock

View Answer

Answer: b



# **Operating System Questions and Answers – Deadlock Detection**

 $1. \ The \ wait-for \ graph \ is \ a \ deadlock \ detection \ algorithm \ that \ is \ applicable \ when:$ 

a) all resources have a single instanceb) all resources have multiple instances

c) all resources have a single 7 multiple instance
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
2. An edge from process Pi to Pj in a wait for graph indicates that :
a) Pi is waiting for Pj to release a resource that Pi needs
b) Pj is waiting for Pi to release a resource that Pj needs
c) Pi is waiting for Pj to leave the system
d) Pj is waiting for Pi to leave the system
View Answer
Answer: a
Explanation: None.
3. If the wait for graph contains a cycle:
a) then a deadlock does not exist
b) then a deadlock exists
c) then the system is in a safe state
d) either deadlock exists or system is in a safe state
View Answer
Answer: b
Explanation: None.
4. If deadlocks occur frequently, the detection algorithm must be invoked a) rarely b) frequently c) rarely & frequently c) none of the mentioned View Answer
Answer: b
Explanation: None.
5. The disadvantage of invoking the detection algorithm for every request is: a) overhead of the detection algorithm due to consumption of memory b) excessive time consumed in the request to be allocated memory c) considerable overhead in computation time d) all of the mentioned View Answer
Answer: c
Explanation: None.
Zapanuon 1 tone.
<ul><li>6. A deadlock eventually cripples system throughput and will cause the CPU utilization to</li><li>a) increase</li><li>b) drop</li></ul>

Answer: b Explanation: None.	
7. Every time a request for allocation cannot be granted immedia	ately, the detection algorithm is invoked. This will help identify:
a) the set of processes that have been deadlocked	
b) the set of processes in the deadlock queue	
c) the specific process that caused the deadlock	
d) all of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
8. A computer system has 6 tape drives, with 'n' processes com 'n' for which the system is guaranteed to be deadlock free is a) 2 b) 3 c) 4 d) 1 View Answer Answer: a Explanation: None.	npeting for them. Each process may need 3 tape drives. The maximum value os:
	s needs a maximum of 2 units then, deadlock:
9. A system has 3 processes sharing 4 resources. If each proces a) can never occur	s needs a maximum of 2 units then, deadlock:
9. A system has 3 processes sharing 4 resources. If each process	s needs a maximum of 2 units then, deadlock:
9. A system has 3 processes sharing 4 resources. If each proces a) can never occur	is needs a maximum of $2$ units then, deadlock:
9. A system has 3 processes sharing 4 resources. If each proces a) can never occur b) may occur c) has to occur d) none of the mentioned	
9. A system has 3 processes sharing 4 resources. If each process a) can never occur b) may occur c) has to occur	
9. A system has 3 processes sharing 4 resources. If each proces a) can never occur b) may occur c) has to occur d) none of the mentioned	

c) stay still

View Answer

a) can never occurb) may occurc) has to occurd) none of the mentioned

View Answer

Answer: a Explanation: None.

d) none of the mentioned

#### Operating System Questions and Answers - Deadlock Recovery

	1.	Α	deadle	ock	can	be	bro	ken	bv	:
--	----	---	--------	-----	-----	----	-----	-----	----	---

- a) abort one or more processes to break the circular wait
- b) abort all the process in the system
- c) preempt all resources from all processes
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 2. The two ways of aborting processes and eliminating deadlocks are :
- a) Abort all deadlocked processes
- b) Abort all processes
- c) Abort one process at a time until the deadlock cycle is eliminated
- d) All of the mentioned

View Answer

Answer: c

Explanation: None.

- 3. Those processes should be aborted on occurrence of a deadlock, the termination of which:
- a) is more time consuming
- b) incurs minimum cost
- c) safety is not hampered
- d) all of the mentioned

View Answer

Answer: b

Explanation: None.

- 4. The process to be aborted is chosen on the basis of the following factors:
- a) priority of the process
- b) process is interactive or batch
- c) how long the process has computed
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 5. Cost factors of process termination include:
- a) Number of resources the deadlock process is not holding
- b) CPU utilization at the time of deadlock
- c) Amount of time a deadlocked process has thus far consumed during its execution
- d) All of the mentioned

View Answer

Answer: c

- 6. If we preempt a resource from a process, the process cannot continue with its normal execution and it must be :
- a) aborted
- b) rolled back

c) terminated d) queued View Answer
Answer: b Explanation: None.
7. Toto a safe state, the system needs to keep more information about the states of processes.  a) abort the process b) roll back the process c) queue the process d) none of the mentioned View Answer
Answer: b Explanation: None.
8. If the resources are always preempted from the same process,
9. The solution to starvation is: a) the number of rollbacks must be included in the cost factor b) the number of resources must be included in resource preemption c) resource preemption be done instead d) all of the mentioned View Answer Answer: a Explanation: None.

### Operating System Questions and Answers – Memory Management – Swapping Processes – 1

Ι.	Address	DIIIC	ши	15	

- a) going to an address in memory
- b) locating an address with the help of another address
- c) binding two addresses together to form a new address in a different memory space
- d) a mapping from one address space to another

View Answer

Answer: d

Explanation: None.

- 2. Binding of instructions and data to memory addresses can be done at:
- a) Compile time
- b) Load time
- c) Execution time
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 3. If the process can be moved during its execution from one memory segment to another, then binding must be :
- a) delayed until run time
- b) preponed to compile time
- c) preponed to load time
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 4. Dynamic loading is:
- a) loading multiple routines dynamically
- b) loading a routine only when it is called
- c) loading multiple routines randomly
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 5. The advantage of dynamic loading is that:
- a) A used routine is used multiple times
- b) An unused routine is never loaded
- c) CPU utilization increases
- d) All of the mentioned

View Answer

Answer: b

- 6. The idea of overlays is to:
- a) data that are needed at any given time
- b) enable a process to be larger than the amount of memory allocated to it

c) keep in memory only those instructions
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
7. Themust design and program the overlay structure.
a) programmer     b) system architect
c) system designer
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
8. Theswaps processes in and out of the memory.
a) Memory manager
b) CPU
c) CPU manager
d) User
View Answer
Answer: a
Explanation: None.
9. If a higher priority process arrives and wants service, the memory manager can swap out the lower priority process to execute the higher
priority process. When the higher priority process finishes, the lower priority process is swapped back in and continues execution. This variant
of swapping is sometimes called :
a) priority swapping b) pull out, push in
c) roll out, roll in
d) none of the mentioned  View Answer
100DE III III III III III III III
Answer: c
Explanation: None.
10. If binding is done at assembly or load time, then the processbe moved to different locations after being swapped out and in again.
a) can
b) must
c) can never
d) may
View Answer
Answer: c
Explanation: None.
11. In a system that does not support swapping,
<ul><li>a) the compiler normally binds symbolic addresses (variables) to relocatable addresses</li><li>b) the compiler normally binds symbolic addresses to physical addresses</li></ul>
c) the loader binds relocatable addresses to physical addresses
d) binding of symbolic addresses to physical addresses normally takes place during execution
View Answer

Answer: a

- 12. Which of the following is TRUE ?
- a) Overlays are used to increase the size of physical memory
- b) Overlays are used to increase the logical address space
- c) When overlays are used, the size of a process is not limited to the size of the physical memory
- d) Overlays are used whenever the physical address space is smaller than the logical address space View Answer

Answer: c Explanation: None.



# Operating System Questions and Answers – Memory Management – Swapping Processes – 2

1. The address generated by the CPU is referred to as :

a) Physical address

b) Logical address
c) Neither physical nor logical
d) None of the mentioned
View Answer
Answer: b
Explanation: None.
LAPIANAUON, I VOIC.
2. The address loaded into the memory address register of the memory is referred to as:
a) Physical address
b) Logical address
c) Neither physical nor logical
d) None of the mentioned
View Answer
Answer: a
Explanation: None.
Z. p.m.mom 7 one
3. The run time mapping from virtual to physical addresses is done by a hardware device called the:
a) Virtual to physical mapper
b) Memory management unit
c) Memory mapping unit
d) None of the mentioned
View Answer
Answer: b
Explanation: None.
4. The base register is also known as the :
a) basic register
b) regular register
c) relocation register
d) delocation register
View Answer
VIEW Alliswei
Answer: c
Explanation: None.
5. The size of a process is limited to the size of:
a) physical memory
b) external storage
c) secondary storage
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
6. If execution time binding is being used, then a processbe swapped to a different memory space.
a) has to be
b) can never

c) must d) may
View Answer
VIEW AllSWEI
Answer: d
Explanation: None.
7. Swapping requires a
a) motherboard
b) keyboard
c) monitor
d) backing store
View Answer
Answer: d
Explanation: None.
Explanation. Polic.
8. The backing store is generally a:
a) fast disk
b) disk large enough to accommodate copies of all memory images for all users
c) disk to provide direct access to the memory images
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
9. Theconsists of all processes whose memory images are in the backing store or in memory and are ready to run.
a) wait queue
b) ready queue
c) cpu
d) secondary storage View Answer
View Allswer
Answer: b
Explanation: None.
10. Thetime in a swap out of a running process and swap in of a new process into the memory is very high.
a) context – switch
b) waiting
c) execution
d) all of the mentioned
View Answer
Angurania
Answer: a Explanation: None.
Explanation, Polic.
11. The major part of swap time istime.
a) waiting
b) transfer
c) execution
d) none of the mentioned
View Answer
Answer: b
Explanation: None.

12. Swappingbe done when a process has pending I/O, or has to execute I/O operations only into operating system buffers.  a) must b) can c) must never d) maybe
View Answer
Answer: c Explanation: None.
13. Swap space is allocated: a) as a chunk of disk b) separate from a file system c) into a file system d) all of the mentioned View Answer
Answer: a Explanation: None.
<codewitharray's></codewitharray's>

# **Operating System Questions & Answers – Memory Management**

1. CPU fetches the instruction from memory according to the value of	
a) program counter	
b) status register	
c) instruction register	
d) program status word	
View Answer	
Answer: a	
Explanation: None.	
2. A memory buffer used to accommodate a speed differential is called	
a) stack pointer	
b) cache	
c) accumulator	
d) disk buffer	
View Answer	
Answer: b	
Explanation: None.	
3. Which one of the following is the address generated by CPU?	
a) physical address	
b) absolute address	
c) logical address	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
4. Run time mapping from virtual to physical address is done by	
a) Memory management unit	
b) CPU	
c) PCI	
d) None of the mentioned	
View Answer	
View Allswei	
Answer: a	
Explanation: None.	
Explanation. Notice.	
5 Management of the formation of the for	down stores of former in major masses in a 11 d
5. Memory management technique in which system stores and retrieves data from se	condary storage for use in main memory is called
a) fragmentation	
b) paging	
c) mapping	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
6. The address of a page table in memory is pointed by	
a) stack pointer	
b) page table base register	
o) page table base register	

- c) page register
- d) program counter

Answer: b

Explanation: None.

- 7. Program always deals with
- a) logical address
- b) absolute address
- c) physical address
- d) relative address

View Answer

Answer: a

Explanation: None.

- 8. The page table contains
- a) base address of each page in physical memory
- b) page offset
- c) page size
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. What is compaction?
- a) a technique for overcoming internal fragmentation
- b) a paging technique
- c) a technique for overcoming external fragmentation
- d) a technique for overcoming fatal error

View Answer

Answer: c

Explanation: None.

- 10. Operating System maintains the page table for
- a) each process
- b) each thread
- c) each instruction
- d) each address

View Answer

Answer: a

# $Operating\ System\ Questions\ and\ Answers-Memory\ Management-Memory\ Allocation-1$

1. The main memory accommodates:

a) operating system
b) cpu
c) user processes
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
2. The operating system is:
a) in the low memory
b) in the high memory
c) either low or high memory (depending on the location of interrupt vector)
d) none of the mentioned
View Answer
VICW Allower
Answer: c
Explanation: None.
3. In contiguous memory allocation:
a) each process is contained in a single contiguous section of memory
b) all processes are contained in a single contiguous section of memory
c) the memory space is contiguous
d) none of the mentioned
View Answer
VIOW A MISWEL
Answer: a
Explanation: None.
4. The relocation register helps in : a) providing more address space to processes b) a different address space to processes
c) to protect the address spaces of processes
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
Explanation. None.
5. With relocation and limit registers, each logical address must bethe limit register.
a) less than
b) equal to
c) greater than
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
6. The operating system and the other processes are protected from being modified by an already running process because :
a) they are in different memory spaces
b) they are in different logical addresses
· · · · · · · · · · · · · · · · · · ·

c) they have a protection algorithm	
d) every address generated by the CPU is being checked aga	ainst the relocation and limit registers
View Answer	
Answer: d	
Explanation: None.	
7. Transient operating system code is code that:	
a) is not easily accessible	
b) comes and goes as needed	
c) stays in the memory always	
d) never enters the memory space	
View Answer	
Answer: b	
Explanation: None.	
9. Using transient and the size of the energting of	tystom during program evacution
8. Using transient code,the size of the operating sy a) increases	ystem during progr <mark>am execut</mark> ion.
b) decreases	
c) changes	
d) maintains	
View Answer	
Answer: c	
Explanation: None.	
a) exactly one process b) at least one process c) multiple processes at once d) none of the mentioned View Answer Answer: a Explanation: None.	THARRAY'S/>
10. In fixed size partition, the degree of multiprogramming is a) the number of partitions	s bounded by
b) the CPU utilization	
c) the memory size	
d) all of the mentioned	
View Answer	
Answer: a	
Explanation: None	
11. The first fit, best fit and worst fit are strategies to select a	1
a) process from a queue to put in memory	
b) processor to run the next process	
c) free hole from a set of available holes	
d) all of the mentioned	
View Answer	
Answer: c	
Explanation: None.	

# $Operating\ System\ Questions\ and\ Answers-Memory\ Management-Memory\ Allocation-2$

1. In internal fragmentation, memory is internal to a partition and :
a) is being used
b) is not being used
c) is always used
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
2. A solution to the problem of external fragmentation is:
a) compaction
b) larger memory space
c) smaller memory space
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
3. Another solution to the problem of external fragmentation problem is to :
a) permit the logical address space of a process to be noncontiguous
b) permit smaller processes to be allocated memory at last
c) permit larger processes to be allocated memory at last
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
A If who action is greate and it down at a comply on load time compaction
4. If relocation is static and is done at assembly or load time, compaction
a) cannot be done b) must be done
c) must not be done
d) can be done
View Answer
Answer: a
Explanation: None.
Explanation. Polic.
5. The disadvantage of moving all process to one end of memory and all holes to the other direction, producing one large hole of available
memory is:
a) the cost incurred
b) the memory used
c) the CPU used
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
6is generally faster thanand
a) first fit, best fit, worst fit

- b) best fit, first fit, worst fit
- c) worst fit, best fit, first fit
- d) none of the mentioned

Answer: a

Explanation: None.

- 7. External fragmentation exists when:
- a) enough total memory exists to satisfy a request but it is not contiguous
- b) the total memory is insufficient to satisfy a request
- c) a request cannot be satisfied even when the total memory is free
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. External fragmentation will not occur when:
- a) first fit is used
- b) best fit is used
- c) worst fit is used
- d) no matter which algorithm is used, it will always occur

View Answer

Answer: d

Explanation: None.

- 9. Sometimes the overhead of keeping track of a hole might be:
- a) larger than the memory
- b) larger than the hole itself
- c) very small
- d) all of the mentioned

View Answer

Answer: b

Explanation: None.

10. When the memory allocated to a process is slightly larger than the process, then:

EWITH

- a) internal fragmentation occurs
- b) external fragmentation occurs
- c) both internal and external fragmentation occurs
- d) neither internal nor external fragmentation occurs

View Answer

Answer: a

### Operating System Questions and Answers - Memory Management - Paging - 1 1. Physical memory is broken into fixed-sized blocks called \_ a) frames b) pages c) backing store d) none of the mentioned View Answer Answer: a Explanation: None. 2. Logical memory is broken into blocks of the same size called a) frames b) pages c) backing store d) none of the mentioned View Answer Answer: b Explanation: None. 3. Every address generated by the CPU is divided into two parts: a) frame bit & page number b) page number & page offset c) page offset & frame bit d) frame offset & page offset View Answer Answer: b Explanation: None. 4. The\_ is used as an index into the page table. a) frame bit b) page number c) page offset d) frame offset View Answer Answer: b Explanation: None. table contains the base address of each page in physical memory. 5. The\_ a) process b) memory c) page d) frame View Answer

- 6. The size of a page is typically:
- a) varied

Answer: c Explanation: None.

b) power of 2

c) power of 4 d) none of the mentioned View Answer
Answer: b Explanation: None.
7. If the size of logical address space is 2 to the power of m, and a page size is 2 to the power of n addressing units, then the high orderbits of a logical address designate the page number, and thelow order bits designate the page offset.
a) m, n
b) n, m
c) m – n, m
d) m – n, n View Answer
VIEW AlliSWEI
Answer: d
Explanation: None.
8. With paging there is nofragmentation.
a) internal
b) external
c) either type of
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation. Polic.
9. The operating system maintains atable that keeps track of how many frames have been allocated, how many are there, and how
many are available.
a) page
b) mapping
c) frame
d) memory View Answer
View Answer
Answer: c
Explanation: None.
Explanation. Folic.
10. Paging increases thetime.
a) waiting
b) execution
c) context – switch
d) all of the mentioned
View Answer
Answer: c Explanation: None.
Explanation. None.
11. Smaller page tables are implemented as a set of
a) queues
u) queue
b) stacks
b) stacks c) counters
b) stacks c) counters d) registers
c) counters

Answer: d

Explanation: None.
12. The page table registers should be built with a) very low speed logic b) very high speed logic c) a large memory space d) none of the mentioned View Answer
Answer: b Explanation: None.
13. For larger page tables, they are kept in main memory and apoints to the page table.  a) page table base register b) page table register pointer c) page table base View Answer  Answer: a  Explanation: None.  14. For every process there is a a) page table b) copy of page table c) pointer to page table d) all of the mentioned View Answer:  Answer: a  Explanation: None.
15. Time taken in memory access through PTBR is: a) extended by a factor of 3 b) extended by a factor of 2 c) slowed by a factor of 3 d) slowed by a factor of 2 View Answer Answer: d Explanation: None.

#### $Operating\ System\ Questions\ and\ Answers-Memory\ Management-Paging-2$

1. Each entry in a Translation lookaside buffer (TLB) consists of :

b) value
c) bit value
d) constant
View Answer
Answer: a
Explanation: None.
2. If a page number is not found in the TLB, then it is known as a:
a) TLB miss
b) Buffer miss
c) TLB hit
d) All of the mentioned
View Answer
Answer: a
Explanation: None.
3. Anuniquely identifies processes and is used to provide address space protection for that process.
a) address space locator
b) address space identifier
c) address process identifier
d) None of the mentioned
View Answer
Answer: b
Explanation: None.
a conciliant and vic/
4. The percentage of times a page number is found in the TLB is known as:
a) miss ratio
b) hit ratio
c) miss percent
d) None of the mentioned
View Answer
Answer: b
Explanation: None.
5. Memory protection in a paged environment is accomplished by :
a) protection algorithm with each page
b) restricted access rights to users
c) restriction on page visibility
d) protection bit with each page
View Answer
Answer: d
Explanation: None.
6. When the valid – invalid bit is set to valid, it means that the associated page:
a) is in the TLB
b) has data in it

c) is in the process's logical address space d) is the system's physical address space View Answer		
Answer: c Explanation: None.		
7. Illegal addresses are trapped using the	bit.	
a) error		
b) protection		
c) valid – invalid		
d) access		
View Answer		
Answer: c		
Explanation: None.		
8. When there is a large logical address space, the	ne best way of paging would be:	
a) not to page		
b) a two level paging algorithm		
c) the page table itself		
d) all of the mentioned		
View Answer		
Answer: b		
Explanation: None.		
access a page in primary memory is 10 ns. The a) 3.0 ns b) 68.0 ns c) 68.5 ns d) 78.5 ns View Answer Answer: c Explanation: None.	average time required to access a page is:	AY'S/>
10. To obtain better memory utilization, dynamic	loading is used. With dynamic loading, a routine	is not loaded until it is called. For
implementing dynamic loading,	<i>y y</i>	
a) special support from hardware is required		
b) special support from operating system is esser	itial	
c) special support from both hardware and opera	ting system is essential	
d) user programs can implement dynamic loadin	g without any special support from hardware or o	operating system
View Answer		
Answer: d		
Explanation: None.		
11. In paged memory systems, if the page size is a) becomes less b) becomes more c) remains constant d) none of the mentioned	increased, then the internal fragmentation general	lly:
View Answer		

Answer: b



#### Operating System Questions and Answers – Memory Management – Segmentation

1. In segmentation, each address is specified by:  a) a segment number & offset  b) an offset & value  c) a value & segment number  d) a key & value  View Answer
Answer: a Explanation: None.
2. In paging the user provides only which is partitioned by the hardware into and a) one address, page number, offset b) one offset, page number, address c) page number, offset, address d) none of the mentioned View Answer  Answer: a Explanation: None.
3. Each entry in a segment table has a: a) segment base b) segment peak c) segment value d) none of the mentioned View Answer
Answer: a Explanation: None.
4. The segment base contains the : a) starting logical address of the process b) starting physical address of the segment in memory c) segment length d) none of the mentioned View Answer
Answer: b Explanation: None.
5. The segment limit contains the : a) starting logical address of the process b) starting physical address of the segment in memory c) segment length d) none of the mentioned View Answer
Answer: c Explanation: None.
6. The offset 'd' of the logical address must be : a) greater than segment limit

b) between 0 and segment limit

- c) between 0 and the segment number
  d) greater than the segment number
  View Answer
  Answer: b
  Explanation: None.

  7. If the offset is legal:
  a) it is used as a physical memory address itself
  b) it is subtracted from the segment base to produce the physical memory address
  - c) it is added to the segment base to produce the physical memory address
  - d) none of the mentioned

Answer: a

Explanation: None.

- 8. When the entries in the segment tables of two different processes point to the same physical location:
- a) the segments are invalid
- b) the processes get blocked
- c) segments are shared
- d) all of the mentioned

View Answer

Answer: c

Explanation: None.

- 9. The protection bit is 0/1 based on:
- a) write only
- b) read only
- c) read write
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 10. If there are 32 segments, each of size 1Kb, then the logical address should have :
- a) 13 bits
- b) 14 bits
- c) 15 bits
- d) 16 bits

View Answer

Answer: a

Explanation: To specify a particular segment, 5 bits are required. To select a particular byte after selecting a page, 10 more bits are required. Hence 15 bits are required.

- 11. Consider a computer with 8 Mbytes of main memory and a 128K cache. The cache block size is 4 K. It uses a direct mapping scheme for cache management. How many different main memory blocks can map onto a given physical cache block?
- a) 2048
- b) 256
- c) 64
- d) 8

View Answer

Answer: c

- $12. \ A \ multilevel \ page \ table \ is \ preferred \ in \ comparison \ to \ a \ single \ level \ page \ table \ for \ translating \ virtual \ address \ because:$
- a) it reduces the memory access time to read or write a memory location
- b) it helps to reduce the size of page table needed to implement the virtual address space of a process
- c) it is required by the translation lookaside buffer
- d) it helps to reduce the number of page faults in page replacement algorithms

Answer: b Explanation: None.



## Operating System Questions & Answers – I/O System – Application I/O Interface – 1

1. If one or more devices use a common set of wires to communicate with the computer system, the connection is called
a) CPU
b) Monitor
c) Wirefull
d) Bus View Answer
View Answer
Answer: d
Explanation: None.
2. A a set of wires and a rigidly defined protocol that specifies a set of messages that can be sent on the wires.
a) port
b) node
c) bus
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
3. When device A has a cable that plugs into device B, and device B has a cable that plugs into device C and device C plugs into a port on the
computer, this arrangement is called a
a) port
b) daisy chain
c) bus
d) cable
View Answer
VIEW Alliswei
Answer: b
Explanation: None.
<del>~ ~   '                                 </del>
4. The present a uniform device-access interface to the I/O subsystem, much as system calls provide a standard interface between
the application and the operating system.
a) Devices
b) Buses
c) Device drivers
d) I/O systems
View Answer
Answer: c
Explanation: None.
5. Ais a collection of electronics that can operate a port, a bus, or a device.
a) controller
b) driver
c) host
d) bus
View Answer
Answer: a
Explanation: None.
6 An I/O part typically consists of four registers status control and registers

a) system in, system out
b) data in, data out
c) flow in, flow out
d) input, output
View Answer
Answer: b
Explanation: None.
7. Theregister is read by the host to get input.
a) flow in
b) flow out
c) data in d) data out
View Answer
VIEW Philowel
Answer: c
Explanation: None.
8. Theregister is written by the host to send output.
a) status
b) control
c) data in
d) data out
View Answer
Answer: d
Explanation: None.
9. The hardware mechanism that allows a device to notify the CPU is called
a) polling
b) interrupt
c) driver
d) controlling View Answer
VIEW AllSWEL
Answer: b
Explanation: None.
10. The CPU hardware has a wire calledthat the CPU senses after executing every instruction.
a) interrupt request line
b) interrupt bus
c) interrupt receive line
d) interrupt sense line
View Answer
Answer: a
Explanation: None.
11. Thedetermines the cause of the interrupt, performs the necessary processing and executes a return from the interrupt
instruction to return the CPU to the execution state prior to the interrupt.
a) interrupt request line
b) device driver
c) interrupt handler
d) all of the mentioned
View Answer

Answer: c		
Explanation: None.		
12. In general the two interrupt request lines are :		
a) maskable & non maskable interrupts		
b) blocked & non maskable interrupts		
c) maskable & blocked interrupts		
d) none of the mentioned		
View Answer		
Answer: a		
Explanation: None.		
13. The are reserved for events such as unrecoverable r	mamory arrors	
a) non maskable interrupts	nemory errors.	
b) blocked interrupts		
c) maskable interrupts		
d) none of the mentioned		
View Answer		
Answer: a		
Explanation: None.		



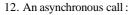
### Operating System Questions & Answers – I/O System – Application I/O Interface – 2 can be turned off by the CPU before the execution of critical instruction sequences that must not be interrupted. a) nonmaskable interrupt b) blocked interrupt c) maskable interrupt d) none of the mentioned View Answer Answer: c Explanation: None. 2. The is used by device controllers to request service. a) nonmaskable interrupt b) blocked interrupt c) maskable interrupt d) none of the mentioned View Answer Answer: c Explanation: None. 3. The interrupt vector contains: a) the interrupts b) the memory addresses of specialized interrupt handlers c) the identifiers of interrupts d) the device addresses View Answer Answer: b Explanation: None. 4. Division by zero, accessing a protected or non existent memory address, or attempting to execute a privileged instruction from user mode are all categorized as \_ a) errors b) exceptions c) interrupt handlers d) all of the mentioned View Answer Answer: b Explanation: None. 5. For large data transfers, is used. a) dma b) programmed I/O c) controller register d) none of the mentioned

- 6. A character stream device transfers:
- a) bytes one by one

View Answer

Answer: a Explanation: None.

b) block of bytes as a unit c) with unpredictable response times d) none of the mentioned View Answer
Answer: a Explanation: None.
7. A block device transfers : a) bytes one by one
b) block of bytes as a unit
c) with unpredictable response times
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
8. A dedicated device is:
a) opposite to a sharable device
b) same as a sharable device
c) can be used concurrently by several processes
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
9. A keyboard is an example of a device that is accessed through ainterface. a) block stream b) set of blocks
c) character stream d) none of the mentioned View Answer
Answer: c
Explanation: None.
10. In polling:
a) busy – wait cycles wait for I/O from device
b) interrupt handler receives interrupts
c) interrupt-request line is triggered by I/O device d) all of the mentioned
View Answer
VICW Allower
Answer: a
Explanation: None.
11. A non blocking system call
a) halts the execution of the application for an extended time
b) does not halt the execution of the application
c) does not block the interrupts
d) none of the mentioned View Answer
VICW I MISWOI
Answer: b
Explanation: None.



- a) returns immediately, without waiting for the I/O to complete
- b) does not return immediately and waits for the I/O to complete
- c) consumes a lot of time
- d) is too slow

Answer: a



## Operating System Questions & Answers – I/O System – Kernel I/O Subsystems

1. Buffering is done to:
a) cope with device speed mismatch
b) cope with device transfer size mismatch
c) maintain copy semantics
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
2 Carbina in Augustina
2. Caching isspooling.
a) same as b) not the same as
c) all of the mentioned
d) none of the mentioned
View Answer
The will have
Answer: b
Explanation: None.
3. Caching:
a) holds a copy of the data
b) is fast memory
c) holds the only copy of the data d) holds output for a device
View Answer
VIEW AlliSWEI
Answer: a
Explanation: None.
-corcultuannavici.
4. Spooling:
a) holds a copy of the data
b) is fast memory
c) holds the only copy of the data
d) holds output for a device View Answer
View Aliswei
Answer: c
Explanation: None.
5. Thekeeps state information about the use of I/O components.
a) CPU
b) OS
c) kernel d) shell
View Answer
VIEW AIISWEI
Answer: c
Explanation: None.
6. The kernel data structures include :
a) process table b) open file table
o) open me more

c) close file table			
d) all of the mentioned			
View Answer			
Answer: b			
Explanation: None.			
7. Windows NT uses s	implementation for I/O		
7. Windows NT uses a	implementation for I/O		
a) message – passing			
b) draft – passing			
c) secondary memory			
d) cache			
View Answer			
Answer: a			
Explanation: None.			
Explanation. None.			
	nnection be <mark>tween a dev</mark> ice driver a	and a user level process.	
a) Bus			
b) I/O operation			
c) Stream			
d) Flow			
View Answer			
Answer: c			
Explanation: None.			
Explanation: 1 tone.			
9. I/O is ain system p	erformance.		
a) major factor	cirormanec.		
b) minor factor			
c) does not matter			
d) none of the mentioned			
View Answer			
VIEW THIS WEI	)[[W/ T/		
Answer: a	IP VV I I P		
Explanation: None.		<i>inition</i>	
10. If the number of cycles spent by	usy – waiting is not excessive, the	n :	
a) interrupt driven I/O is more effic			
b) programmed I/O is more efficien			
c) both programmed and interrupt of			
d) none of the mentioned	• •		
View Answer			
Answer: b			
Explanation: None.			

## **Operating System Questions & Answers – RTOS**

b) priority inversion protocol

1. In real time operating system a) all processes have the same priority b) a task must be serviced by its deadline period c) process scheduling can be done only once d) kernel is not required View Answer  Answer: b Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero d) dependent on the scheduling
b) a task must be serviced by its deadline period c) process scheduling can be done only once d) kernel is not required View Answer  Answer: b Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
c) process scheduling can be done only once d) kernel is not required View Answer  Answer: b  Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a  Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
d) kernel is not required View Answer  Answer: b  Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a  Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
View Answer: b Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
Answer: b Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
Explanation: None.  2. Hard real time operating system has jitter than a soft real time operating system. a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
2. Hard real time operating system has jitter than a soft real time operating system.  a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
a) less b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
b) more c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
c) equal d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
d) none of the mentioned View Answer  Answer: a Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
View Answer  Answer: a  Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
Explanation: Jitter is the undesired deviation from the true periodicity.  3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
3. For real time operating systems, interrupt latency should be a) minimal b) maximum c) zero
a) minimal b) maximum c) zero
a) minimal b) maximum c) zero
a) minimal b) maximum c) zero
b) maximum c) zero
c) zero
View Answer
Answer: a
Explanation: Interrupt latency is the time duration between the generation of interrupt and execution of its service.
A CORFIUITII A DD 4 W/O /
4. In rate monotonic scheduling
a) shorter duration job has higher priority
b) longer duration job has higher priority
c) priority does not depend on the duration of the job
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
5. In which scheduling certain amount of CPU time is allocated to each process?
a) earliest deadline first scheduling
b) proportional share scheduling
c) equal share scheduling
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
6. The problem of priority inversion can be solved by a) priority inheritance protocol

- c) both priority inheritance and inversion protocol d) none of the mentioned View Answer Answer: a Explanation: None. 7. Time duration required for scheduling dispatcher to stop one process and start another is known as a) process latency b) dispatch latency c) execution latency d) interrupt latency View Answer Answer: b Explanation: None. 8. Time required to synchronous switch from the context of one thread to the context of another thread is called a) threads fly-back time b) jitter c) context switch time d) none of the mentioned View Answer Answer: c Explanation: None. 9. Which one of the following is a real time operating system? a) RTLinux b) VxWorks c) Windows CE d) All of the mentioned View Answer
- 10. VxWorks is centered around
- a) wind microkernel

Explanation: None.

b) linux kernel

Answer: d

- c) unix kernel
- d) none of the mentioned

View Answer

Answer: a

#### $Operating\ System\ Questions\ \&\ Answers-Real\ Time\ System-Implementing\ RT\ Operating\ Systems-1$

1. The disadvantage of real addressing mode is :
a) there is a lot of cost involved
b) time consumption overhead
c) absence of memory protection between processes
d) restricted access to memory locations by processes
View Answer
Answer: c Explanation: None.
2. Preemptive, priority based scheduling guarantees :
a) hard real time functionality
b) soft real time functionality
c) protection of memory
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation. Notice
3. Real time systems must have :
a) preemptive kernels
b) non preemptive kernels c) preemptive kernels or non preemptive kernels
d) neither preemptive nor non preemptive kernels
View Answer
Answer: a
Explanation: None.
- CODEWITH ADDAWIG /
4. Event latency is :
a) the amount of time an event takes to occur from when the system started
b) the amount of time from the event occurrence till the system stops
c) the amount of time from event occurrence till the event crashes
d) the amount of time that elapses from when an event occurs to when it is serviced.
View Answer
Annual d
Answer: d
Explanation: None.
5. Interrupt latency refers to the period of time :
a) from the occurrence of an event to the arrival of an interrupt
b) from the occurrence of an event to the servicing of an interrupt
c) from arrival of an interrupt to the start of the interrupt service routine
d) none of the mentioned
View Answer
VIEW Allswei
Answer: c
Explanation: None.
6. Real time systems need tothe interrupt latency.
a) minimize b) maximize
b) maximize

c) not bother about
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
7. The amount of time required for the scheduling dispatcher to stop one process and start another is known as
a) event latency
b) interrupt latency
c) dispatch latency
d) context switch
View Answer
Answer: c
Explanation: None.
8. The most effective technique to keep dispatch latency low is to:
a) provide non preemptive kernels
b) provide preemptive kernels
c) make it user programmed
d) run less number of processes at a time
View Answer
Answer: b
Explanation: None.
9. Priority inversion is solved by use of
a) priority inheritance protocol
b) two phase lock protocol
c) time protocol
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
Explanation. Polic.

#### $Operating\ System\ Questions\ \&\ Answers-Real\ Time\ System-Implementing\ RT\ Operating\ Systems-2$

1. In a real time system the computer results:
a) must be produced within a specific deadline period
b) may be produced at any time
c) may be correct
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
2. In a safety critical system, incorrect operation:
a) does not affect much
b) causes minor problems
c) causes major and serious problems
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
3. Antilock brake systems, flight management systems, pacemakers are examples of:
a) safety critical system
b) hard real time system
c) soft real time system
d) safety critical system and hard real time system
View Answer
VICW Alliswei
Answer: d
Explanation: None.
000000000000000000000000000000000000000
4. In areal time system, it is guaranteed that critical real time tasks will be completed within their deadlines.
a) soft
b) hard
c) critical
d) none of the mentioned
View Answer
YIEW MIDWEI
Answer: b
Explanation: None.
5. Some of the properties of real time systems include :
a) single purpose
b) inexpensively mass produced
c) small size
d) all of the mentioned
View Answer
VICW AlliSWCI
Answer: d
Explanation: None.
6. The amount of memory in a real time system is generally:
a) less compared to PCs
b) high compared to PCs

- c) same as in PCs
- d) they do not have any memory

Answer: a

Explanation: None.

- 7. The priority of a real time task:
- a) must degrade over time
- b) must not degrade over time
- c) may degrade over time
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 8. Memory management units:
- a) increase the cost of the system
- b) increase the power consumption of the system
- c) increase the time required to complete an operation
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

9. The technique in which the CPU generates physical addresses directly is known as :

DEWITHARI

- a) relocation register method
- b) real addressing
- c) virtual addressing
- d) none of the mentioned

View Answer

Answer: b

#### Operating System Questions & Answers – Real Time System – Real Time CPU Scheduling – 1

1. Earnest deadine first algorithm assigns priorities according to .
a) periods
b) deadlines
c) burst times
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
2. A process P1 has a period of 50 and a CPU burst of t1 = 25, P2 has a period of 80 and a CPU burst of 35. The total CPU utilization is:
a) 0.90
b) 0.74
c) 0.94
d) 0.80
View Answer
Answer: c
Explanation: None.
Explanation, 1 tone.
3. In the above question, the priorities of P1 and P2:
a) remain the same throughout
b) keep varying from time to time
c) may or may not be change
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
A CODEWITH A BRANCH
4. In Question number 2, can the two processes be scheduled using the EDF algorithm without missing their respective deadlines?
a) Yes
b) No
c) Maybe
d) None of the mentioned
View Answer
Answer: a
Explanation: None.
5. Using EDE already are attackly it is immersible to achieve 100 percent will get on due to a
5. Using EDF algorithm practically, it is impossible to achieve 100 percent utilization due to:
a) the cost of context switching
b) interrupt handling
c) power consumption
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
6. T shares of time are allocated among all processes out of N shares inscheduling algorithm.
a) rate monotonic
b) proportional share

c) earliest deadline first d) none of the mentioned View Answer	
Answer: b Explanation: None.	
7. If there are a total of T = 100 shares to be divided among thr C is assigned 20 shares.	ree processes, A, B and C. A is assigned 50 shares, B is assigned 15 shares and
A will have percent of the total processor time.	
a) 20	
b) 15	
c) 50	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
	ree processes, A, B and C. A is assigned 50 shares, B is assigned 15 shares and
C is assigned 20 shares.	
B will havepercent of the total processor time. a) 20	
b) 15	
c) 50	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
0. If there are a total of T = 100 shares to be divided among the	ree processes, A, B and C. A is assigned 50 shares, B is assigned 15 shares and
C is assigned 20 shares.	ee processes, A, B and C. A is assigned 30 shares, B is assigned 13 shares and
C will have percent of the total processor time.	'U A DD A V'C /
a) 20	
b) 15	IIMMIN' O'
c) 50	
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
Explanation. Folic.	
10. If there are a total of $T = 100$ shares to be divided among the	nree processes, A, B and C. A is assigned 50 shares, B is assigned 15 shares
and C is assigned 20 shares.	nee processes, r., 2 and er rris assigned to situates, 2 is assigned to situates
If a new process D requested 30 shares, the admission controlle	er would :
a) allocate 30 shares to it	
b) deny entry to D in the system	
c) all of the mentioned	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	

## Operating System Questions & Answers – Real Time System – Real Time CPU Scheduling – 2 1. To schedule the processes, they are considered a) infinitely long b) periodic c) heavy weight d) light weight View Answer Answer: b Explanation: None. 2. If the period of a process is 'p', then the rate of the task is: a) $p^2$ b) 2\*p c) 1/p d) p View Answer Answer: c Explanation: None. 3. The scheduler admits a process using: a) two phase locking protocol b) admission control algorithm c) busy wait polling d) none of the mentioned View Answer Answer: c Explanation: None. 4. The scheduling algorithm schedules periodic tasks using a static priority policy with preemption. a) earliest deadline first b) rate monotonic c) first cum first served d) priority View Answer Answer: b Explanation: None. 5. Rate monotonic scheduling assumes that the : a) processing time of a periodic process is same for each CPU burst b) processing time of a periodic process is different for each CPU burst c) periods of all processes is the same d) none of the mentioned

- 6. In rate monotonic scheduling, a process with a shorter period is assigned:
- a) a higher priority

View Answer

Answer: a Explanation: None.

b) a lower priority

c) higher & lower priority d) none of the mentioned View Answer	
Answer: a Explanation: None.	
7. There are two processes P1 and P2, whose periods are 50 and 100 respectimes are t1 = 20 for P1 and t2 = 35 for P2. Is it possible to schedule these tscheduling?  a) yes b) no c) maybe d) none of the mentioned	
View Answer  Answer: a  Explanation: None.	
8. If a set of processes cannot be scheduled by rate monotonic scheduling al a) they can be scheduled by EDF algorithm b) they cannot be scheduled by EDF algorithm c) they cannot be scheduled by any other algorithm d) none of the mentioned View Answer	gorithm, then:
Answer: c Explanation: None.	
9. A process P1 has a period of 50 and a CPU burst of t1 = 25, P2 has a period of 50 and a CPU b	eriod of 80 and a CPU burst of 35. The total CPU utilization is
c) 0.94 d) 0.80 View Answer  Answer: c Explanation: None.	

10. Can the processes in the previous question be scheduled without missing the deadlines ?

- a) Yes
- b) No
- c) Maybe
- d) None of the mentioned

View Answer

Answer: b

#### Operating System Question & Answers - Multimedia Systems

		nedia	

- a) is same as any other regular file
- b) must be accessed at specific rate
- c) stored on remote server can not be delivered to its client
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 2. In which type of streaming multimedia file is delivered to the client, but not shared?
- a) real-time streaming
- b) progressive download
- c) compression
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 3. Which one of the following is the characteristic of a multimedia system?
- a) high storage
- b) high data rates
- c) both high storage and high data rates
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 4. The delay that occur during the playback of a stream is called
- a) stream delay
- b) playback delay
- c) jitter
- d) event delay

View Answer

Answer: c

Explanation: None.

- 5. Which algorithm can be optimized to meet the timing deadlines and rate requirements of continuous media?
- a) Earliest-Deadline-First scheduling
- b) SCAN-EDF scheduling
- c) Both Earliest-Deadline-First scheduling & SCAN-EDF scheduling
- d) None of the mentioned

View Answer

Answer: c

- 6. Real time streaming protocol is used
- a) to control streaming media servers
- b) for establishing and controlling media sessions between endpoints

- c) to provide real time control of playback of media files from the server
- d) all of the mentioned

Answer: d

Explanation: None.

- 7. In teardown state of real time streaming protocol
- a) the server resources for client
- b) server delivers the stream to client
- c) server suspends delivery of stream
- d) server breaks down the connection

View Answer

Answer: d

Explanation: None.

- 8. CineBlitz multimedia server supports
- a) real time clients
- b) non-real time clients
- c) both real time & non-real time clients
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 9. Multimedia system require hard real time scheduling
- a) to ensure critical tasks will be serviced within timing deadlines
- b) to deliver the media file to the client
- c) to minimize the delay
- d) for security

View Answer

Answer: a

Explanation: None.

- 10. Which one of the following resource is not necessarily required on a file server?
- a) secondary storage
- b) processor
- c) network
- b) monitor

View Answer

Answer: d

## Operating System Questions & Answers – Multimedia System – Compression – $\mathbf{1}$

_
S.

b) streaming

- c) flowingd) leaking
- View Answer

Answer: b

Explanation: None.

- 7. The two types of streaming techniques are:
- a) progressive download & real time streaming
- b) regular download & real time streaming
- c) real time & virtual time streaming
- d) virtual time streaming

View Answer

Answer: a

Explanation: None.

- 8. A media file containing audio or video is downloaded and stored on the client's local file system in:
- a) progressive download
- b) regular download
- c) real time streaming
- d) virtual time streaming

View Answer

Answer: a

Explanation: As the file is being downloaded, the client is able to play back the media file without having to wait for the file to be downloaded in its entirety.

- 9. Progressive download is most useful for :
- a) short video clips
- b) long video clips
- c) extremely long and high quality videos
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. The media file is streamed to the client but is only played and not stored by the client in:
- a) progressive download
- b) regular download
- c) real time streaming
- d) virtual time streaming

View Answer

Answer: c

Explanation: None.

- 11. Real time streaming is most useful for:
- a) short video clips
- b) long video clips
- c) extremely short and low quality videos
- d) none of the mentioned

View Answer

Answer: b



#### Operating System Questions & Answers – Multimedia System – Compression – 2

b) network protocols must support bandwidth requirements while minimizing delay and jitter

d) none of the mentioned			
View Answer			
Answer: c			
Explanation: None.			
7. Once a file is compressed:			
a) it has a better quality			
b) it takes up less space for storage			
c) it cannot be delivered to the client more	quickly		
d) none of the mentioned			
View Answer			
Answer: b			
Explanation: None.			
8. Compression ratio is the ratio of:			
a) the original file size to the size of the com	pressed file		
b) the number of pixels in a frame of the ori	<mark>ginal size to thos</mark> e in a frame of the	e compressed file	
c) compressed file size to the original file size	ze e		
d) none of the mentioned			
View Answer			
Answer: a			
Explanation: None.			
			7
9. Lossy and lossless are classifications of:			·
a) multimedia storage systems			
b) files			
c) compression algorithms			
d) all of the mentioned			
View Answer	/ / /		
3 / TILL			
Answer: c			
Explanation: None.			
10. Lossy techniques provide	when compared to lossless tech	nniques.	
a) lower compression ratios			
b) much higher compression ratios			
c) similar compression ratios			
d) none of the mentioned			
View Answer			

c) all of the mentioned

Answer: b Explanation: None.

# $Operating\ System\ Questions\ \&\ Answers-Multimedia\ System-Compression-3$

1. The full form of MPEG is:
a) Motion Pictures Engineering Group
b) Motion Picture Engineers Group
c) Motion Picture Experts Group
d) None of the mentioned
View Answer
VICW MIISWCI
Answer: c
Explanation: None.
2. MPEG compression:
a) stores the compression values of each frame
b) stores the differences between successive frames
c) stores multiple frames' values together
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
3. The three levels in QoS are:
a) Best effort service
b) Soft QoS
c) Hard QoS
d) All of the mentioned
View Answer
Answer: d
Explanation: None.
4. The level that treats different types of traffics in different ways, giving ce <mark>rtain traffic streams higher priority than other streams and with best</mark>
efforts, but no guarantees are made :
a) Best effort service
b) Soft QoS
c) Worst effort service
d) Hard QoS
View Answer
Answer: b
Explanation: None.
5. The quality of service requirements are guaranteed in :
a) Best effort service
b) Soft QoS
c) Worst effort service
d) Hard QoS
View Answer
TION TAILDINGS
Answer: d
Explanation: None.
6. The factors that define OoS are:

a) Throughput

b) Jitter
c) Delay
d) All of the mentioned
View Answer
VICW Allowed
Answer: d
Explanation: None.
7. Delay and Jitter:
a) mean the same thing
b) are two completely different things
c) all of the mentioned
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
8. Delay is:
a) the time from when a request is first submitted to when the desired result is produced
b) the delay that occurs during playback of the stream
c) how the errors are handled during transmission and processing of continuous media
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
9. Admission control is:
a) the delay that occurs during playback of the stream
b) the practice of admitting a request for service only if the server has sufficient resources to satisfy the request
c) how the errors are handled during transmission and processing of continuous media
d) none of the mentioned
View Answer
A CI.IIIIF WIII HARRAY 3/2 II
Answer: b
Explanation: None.
10. An admission control scheme assigns ato each type of resource.
a) processor
b) memory location
c) resource manager
d) all of the mentioned
View Answer
Answer: c
Explanation: None.

# Operating System Questions & Answers – Multimedia System – CPU and Disk Scheduling

A scheduling algorithm can use either priority or priority.
a) static, still
b) static, dynamic
c) live, dead
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
2. The priority of a process willif the scheduler assigns it a static priority.
a) change
b) remain unchanged
c) depends on the operating system
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
3. As disks have relatively low transfer rates and relatively high latency rates, disk schedulers must reduce latency times to:
a) ensure high bandwidth
b) ensure low bandwidth
c) make sure data is transferred
d) reduce data transfer speeds  View Answer
VIEW AllSWEI
Answer: a
Explanation: None.
000000000000000000000000000000000000000
4. Servicing requests strictly according to deadline using EDF may result in:
a) lower seek times
b) lower bandwidth
c) higher seek time
d) higher bandwidth
View Answer
Answer: c
Explanation: None.
5. The hybrid algorithm that combines EDF with SCAN algorithm is known as:
a) EDS
b) SDF
c) SCAN-EDF
d) None of the mentioned
View Answer
Answer: c
Explanation: None.
6. If several requests have different deadlines that are relatively close together, then using the SCAN – EDF algorithm:

- a) the SCAN ordering will service the requests in that batch
- b) the EDF ordering will service the requests in that batch

c) the FCFS ordering will service the requests in that batch d) none of the mentioned View Answer
Answer: a Explanation: None.
7. Multimedia systems requirescheduling to ensure critical tasks will be serviced within timing deadlines. a) soft real time b) hard real time c) normal d) none of the mentioned View Answer
Answer: b Explanation: None.
8. The EDF scheduler usesto order requests according to their deadlines. a) stack b) disks c) queue d) none of the mentioned View Answer  Answer: c  Explanation: None.
9. In SCAN – EDF, requests with the same deadlines are ordered according to : a) SCAN policy b) EDF policy c) FCFS policy d) FIFO policy View Answer Answer: a Explanation: None.

# Operating System Questions & Answers – Multimedia System – Network Management

1. The three general methods for delivering content from a server to a client across a network are :

a) unicasting
b) multicasting
c) broadcasting
d) all of the mentioned View Answer
View Allswer
Answer: d
Explanation: None.
2. Unicasting delivers the content to:
a) a single client
b) all clients, regardless whether they want the content or not
c) a group of receivers who indicate they wish to receive the content
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
Explanation, 1 voile.
3. Broadcasting delivers the content to:
a) a single client
b) all clients, regardless whether they want the content or not
c) a group of receivers who indicate they wish to receive the content
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
4. Multicasting delivers the content to:
a) a single client
b) all clients, regardless whether they want the content or not
c) a group of receivers who indicate they wish to receive the content
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
5. RTSP stands for :
a) Real Time Streaming Policy
b) Real Time Streaming Protocol
c) Real Time Systems Protocol
d) Read Time Streaming Policy
View Answer
Answer: b
Explanation: None.
6. HTTP is
a) a stateful protocol
b) a stateless protocol

- c) a protocol that maintains the status of its connection with the client
- d) a stateless protocol that does not maintain the status of its connection with the client

Answer: d

Explanation: None.

- 7. RTSP includes the following states:
- a) SETUP
- b) PLAY
- c) PAUSE
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 8. In the SETUP state:
- a) the server is setup
- b) the client is setup
- c) the server allocates resources for the client session
- d) the client sends requests to the server

View Answer

Answer: c

Explanation: None.

- 9. In the TEARDOWN state:
- a) the server breaks down the connection and releases the resources allocated for the session
- b) the client breaks down the connection and releases the resources allocated for the session
- c) the system crashes
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. RTP stands for:
- a) real time protocol
- b) real time transmission control protocol
- c) real time transmission protocol
- d) real time transport protocol

View Answer

Answer: d

Explanation: None.

- 11. The problem with unicast delivery is that the:
- a) memory allocation is difficult
- b) server must establish a separate unicast session for each client
- c) the routers must support unicasting
- d) the clients must be close to the server

View Answer

Answer: b

- 12. The difficulty with multicasting from a practical point of view is :
- a) memory allocation is difficult
- b) server must establish a separate unicast session for each client
- c) the routers must support multicasting
- d) none of the mentioned

Answer: c

Explanation: None.

- 13. To let a client have random access to a media stream:
- a) the protocol used must not be stateless
- b) the server must support download
- c) the stream should give access rights to the client
- d) all of the mentioned

View Answer

Answer: a



### Operating System Questions & Answers - Security - User Authentication

- 1. Which of the following are forms of malicious attack?
- a) Theft of information
- b) Modification of data
- c) Wiping of information
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 2. What are common security threats?
- a) File Shredding
- b) File sharing and permission
- c) File corrupting
- d) File integrity

View Answer

Answer: b

Explanation: Sharing and associated permissions are usual exploits which can compromise the system.

- 3. From the following, which is not a common file permission?
- a) Write
- b) Execute
- c) Stop
- d) Read

View Answer

Answer: c

Explanation: None.

- 4. Which of the following is a good practice?
- a) Give full permission for remote transferring
- b) Grant read only permission
- c) Grant limited permission to specified account
- d) Give both read and write permission but not execute

View Answer

Answer: c

Explanation: Limited access is a key method to circumvent unauthorized access and exploits.

- 5. What is not a good practice for user administration?
- a) Isolating a system after a compromise
- b) Perform random auditing procedures
- c) Granting privileges on a per host basis
- d) Using telnet and FTP for remote access

View Answer

Answer: d

Explanation: Telnet and FTP are not encrypted and can be compromised.

- 6. Which of the following is least secure method of authentication?
- a) Key card
- b) fingerprint

- c) retina pattern
- d) Password

#### Answer: d

Explanation: Passwords can be be compromised more easily than to replicate a physical thing like key card, fingerprint or retina.

- 7. Which of the following is a strong password?
- a) 19thAugust88
- b) Delhi88
- c) [email protected]
- d) !augustdelhi

View Answer

#### Answer: c

Explanation: It has a combination of Alphabet both capital and small along with number and special character. Thus always use complex password with combination of all these.

- 8. Why is one time password safe?
- a) It is easy to generated
- b) It cannot be shared
- c) It is different for every access
- d) It is a complex encrypted password

View Answer

#### Answer: c

Explanation: One time password is safe since it is generated per access and thus cannot be brute forced or deduced.

- 9. What does Light Directory Access Protocol (LDAP) doesn't store?
- a) Users
- b) Address
- c) Passwords
- d) Security Keys

View Answer

## Answer: b

Explanation: None.

- 10. What is characteristic of RADIUS system?
- a) It is essential for centralized encryption and authentication
- b) It works on Network layer to deny access to unauthorized people
- c) It provides centralized authentication mechanism via network devices
- d) It's a strong File access system

View Answer

### Answer: c

Explanation: None.

- 11. Which happens first authorization or authentication?
- a) Authorization
- b) Authentication
- c) Authorization & Authentication are same
- d) None of the mentioned

View Answer

### Answer: a

- 12. What is characteristics of Authorization?
- a) RADIUS and RSA
- b) 3 way handshaking with syn and fin
- c) Multilayered protection for securing resources
- d) Deals with privileges and rights

Answer: d

Explanation: None.

- 13. What forces the user to change password at first logon?
- a) Default behavior of OS
- b) Part of AES encryption practice
- c) Devices being accessed forces the user
- d) Account administrator

View Answer

#### Answer: d

Explanation: Its administrator's job to ensure that password of the user remains private and is known only to user. But while making a new user account he assigns a random general password to give it to user. Thus even administrator cannot access a particular users account.

- 14. What is not a best practice for password policy?
- a) Deciding maximum age of password
- b) Restriction on password reuse and history
- c) Password encryption
- d) Having change password every 2 years

View Answer

### Answer: d

Explanation: Old passwords are more vulnerable to being misplaced or compromised. Passwords should be changed periodically to enhance security.

<CODEWITHAL

## Operating System Questions & Answers - Security - Program and System Threats

- 1. What is breach of integrity?
- a) This type of violation involves unauthorized reading of data
- b) This violation involves unauthorized modification of data
- c) This violation involves unauthorized destruction of data\_
- d) This violation involves unauthorized use of resources

View Answer

Answer: b

Explanation: None.

- 2. What is breach of confidentiality?
- a) This type of violation involves unauthorized reading of data
- b) This violation involves unauthorized modification of data
- c) This violation involves unauthorized destruction of data
- d) This violation involves unauthorized use of resources

View Answer

Answer: a

Explanation: None.

- 3. What is theft of service?
- a) This type of violation involves unauthorized reading of data
- b) This violation involves unauthorized modification of data
- c) This violation involves unauthorized destruction of data
- d) This violation involves unauthorized use of resources

View Answer

Answer: d

Explanation: None.

- 4. What is breach of availability?
- a) This type of violation involves unauthorized reading of data
- b) This violation involves unauthorized modification of data
- c) This violation involves unauthorized destruction of data
- d) This violation involves unauthorized use of resources

View Answer

Answer: c

Explanation: None.

- 5. What is Trojan horse?
- a) It is a useful way to encrypt password
- b) It is a user which steals valuable information
- c) It is a rogue program which tricks users
- d) It's a brute force attack algorithm

View Answer

Answer: c

- 6. What is trap door?
- a) IT is trap door in WarGames
- b) It is a hole in software left by designer

- c) It is a Trojan horse
- d) It is a virus which traps and locks user terminal

Answer: b

Explanation: None.

- 7. Which mechanism is used by worm process?
- a) Trap door
- b) Fake process
- c) Spawn Process
- d) VAX process

View Answer

Answer: c

Explanation: None.

- 8. Which of the following is not a characteristic of virus?
- a) Virus destroy and modify user data
- b) Virus is a standalone program
- c) Virus is a code embedded in a legitimate program
- d) Virus cannot be detected

View Answer

Answer: d

Explanation: Virus can be detected by having a antivirus program.

- 9. What is known as masquerading?
- a) When one participant in communication pretends to be someone else
- b) When attacker modifies data in communication
- c) When attack is of fraudulent repeat of a valid data
- d) When attack gains access to remote systems

View Answer

Answer: a

Explanation: None.

- 10. Who unleashed famous worm attack in 1988 which effected UNIX systems and caused losses in millions?
- a) Robert Morris
- b) Bob Milano
- c) Mark zuckerberg
- d) Bill Gates

View Answer

Answer: a

Explanation: None.

- 11. What is port scanning?
- a) It is a software used to scan system for attack
- b) It is a software application designed to probe a server or host for open ports
- c) It is software used to scan system for introducing attacks by brute force
- d) None of the mentioned

View Answer

Answer: b

- 12. Which is not a port scan type? a) TCP scanning
- b) SYN scanning
- c) UDP scanning
- d) SYSTEM Scanning

Answer: d

Explanation: None.

- 13. Which is not a valid port scan type?
- a) ACK scanning
- b) Window scanning
- c) IGMP scan
- d) FIN scanning

View Answer

Answer: c

Explanation: None.

- 14. What are zombie systems?
- a) Are specific system which are designed to attack by manufacturer
- b) They are network of known hacking group
- c) These systems are previously compromised, independent systems
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 15. What is known as DOS attack?
- a) It is attack to block traffic of network
- b) It is attack to harm contents stored in HDD by worm spawn processes
- c) It is an attempt to make a machine or network resource unavailable
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 16. With regard to DOS attack what is not true from below options?
- a) We can stop DOS attack completely
- b) By upgrading OS vulnerability we can stop DOS attack to some extent
- c) DOS attack has to be stopped at network level
- d) Such attack can last for hours

View Answer

Answer: a

### Operating System Questions & Answers - Security - Securing Systems and Facilities

- 1. What is not a important part of security protection?
- a) Large amount of RAM to support antivirus
- b) Strong passwords
- c) Audit log periodically
- d) Scan for unauthorized programs in system directories

View Answer

#### Answer: a

Explanation: RAM has no effect on security of a system. System's protection remains unchanged in increasing or decreasing amount of RAM.

- 2. What is used to protect network from outside internet access?
- a) A trusted antivirus
- b) 24 hours scanning for virus
- c) Firewall to separate trusted and untrusted network
- d) Deny users access to websites which can potentially cause security leak

View Answer

### Answer: c

Explanation: Firewall create a protective barrier to secure internal network. A antivirus can only detect harmful viruses but cannot stop illegal access by remote attacker.

- 3. What is best practice in firewall domain environment?
- a) Create two domain trusted and untrusted domain
- b) Create strong policy in firewall to support different types of users
- c) Create a Demilitarized zone
- d) Create two DMZ zones with one untrusted domain

View Answer

### Answer: c

Explanation: All live servers or workstations are kept in a separate zone than inside and outside to enhance protection.

- 4. Which direction access cannot happen using DMZ zone by default?
- a) Company computer to DMZ
- b) Internet to DMZ
- c) Internet to company computer
- d) Company computer to internet

View Answer

#### Answer: c

Explanation: Connection from internet are never allowed to directly access internal PCs but is routed through DMZ zone to prevent attacks.

- 5. What are two features of a tripwire file system?
- a) It is a tool to monitor file systems
- b) It is used to automatically take corrective action
- c) It is used to secure UNIX system
- d) None of the mentioned

View Answer

Answer: a

- 6. How do viruses avoid basic pattern match of antivirus?
- a) They are encrypted

- b) They act with special permissions
- c) They modify themselves
- d) None of the mentioned

Answer: c

Explanation: None.

- 7. How does an antivirus of today identify viruses?
- a) Previously known patterns
- b) It can detect unknown patterns
- c) It can take high priority to increase scanning speed
- d) None of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. What is known as sandbox?
- a) It is a program which can be molded to do desired task
- b) It is program that is controlled or emulated section of OS
- c) It is a special mode of antivirus
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

- 9. What is are two safe computing practices?
- a) Not to open software from unknown vendors
- b) Open and execute programs in admin level/root
- c) Open and execute programs in presence of antivirus
- d) None of the mentioned

View Answer

Answer: a

Explanation: Disgruntled employees have in past infected the master copies of software programs to do economic harm to the company.

### Operating System Questions & Answers - Security - Intrusion Detection

1	X X 71 .	. 1	1.00				1	0
	What are	the	different	Wavs	tΩ	1nfr110	10	٠,

- a) Buffer overflows
- b) Unexpected combinations and unhandled input
- c) Race conditions
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 2. What are major components of intrusion detection system?
- a) Analysis Engine
- b) Event provider
- c) Alert Database
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 3. What are the different ways to classify an IDS?
- a) anomaly detection
- b) signature based misuse
- c) stack based
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 4. What are the different ways to classify an IDS?
- a) Zone based
- b) Host & Network based
- c) Network & Zone based
- d) Level based

View Answer

Answer: b

Explanation: None.

- 5. What are characteristics of anomaly based IDS  $\,?\,$
- a) It models the normal usage of network as a noise characterization
- b) It doesn't detect novel attacks
- c) Anything distinct from the noise is not assumed to be intrusion activity
- d) It detects based on signature

View Answer

Answer: a

- 6. What is major drawback of anomaly detection IDS?
- a) These are very slow at detection
- b) It generates many false alarms

- c) It doesn't detect novel attacks
- d) None of the mentioned

Answer: b

Explanation: None.

- 7. What are characteristics of signature based IDS?
- a) Most are based on simple pattern matching algorithms
- b) It is programmed to interpret a certain series of packets
- c) It models the normal usage of network as a noise characterization
- d) Anything distinct from the noise is assumed to be intrusion activity

View Answer

Answer: a

Explanation: None.

- 8. What are drawbacks of signature based IDS?
- a) They are unable to detect novel attacks
- b) They suffer from false alarms
- c) They have to be programmed again for every new pattern to be detected
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 9. What are characteristics of Host based IDS?
- a) The host operating system logs in the audit information
- b) Logs includes logins,file opens and program executions
- c) Logs are analysed to detect tails of intrusion
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 10. What are drawbacks of the host based IDS?
- a) Unselective logging of messages may increase the audit burdens
- b) Selective logging runs the risk of missed attacks
- c) They are very fast to detect
- d) They have to be programmed for new patterns

View Answer

Answer: a

Explanation: None.

- 11. What are strengths of the host based IDS?
- a) Attack verification
- b) System specific activity
- c) No additional hardware required
- d) All of the mentioned

View Answer

Answer: d

- 12. What are characteristics of stack based IDS?
- a) They are integrated closely with the TCP/IP stack and watch packets
- b) The host operating system logs in the audit information
- c) It is programmed to interpret a certain series of packets
- d) It models the normal usage of network as a noise characterization

Answer: a

Explanation: None.

- 13. What are characteristics of Network based IDS?
- a) They look for attack signatures in network traffic
- b) Filter decides which traffic will not be discarded or passed
- c) It is programmed to interpret a certain series of packet
- d) It models the normal usage of network as a noise characterization

View Answer

Answer: a

Explanation: None.

- 14. What are strengths of Network based IDS?
- a) Cost of ownership reduced
- b) Malicious intent detection
- c) Real time detection and response
- d) All of the mentioned

View Answer

Answer: d



## Operating System Questions & Answers - Security - Cryptography

- 1. What is preferred way of encryption?
- a) pre shared secret key
- b) using key distribution center (KDC)
- c) public key-encryption
- d) symmetric key

View Answer

Answer: c

Explanation: Pre Shared key can be compromised and either party can be suspected. Likewise KDC or symmetric key can have breach which are undesirable. Public and private key encryption is a known industry standard.

- 2. What is not a role of encryption?
- a) It is used to protect data from unauthorized access during transmission
- b) It is used to ensure user authentication
- c) It is used to ensure data integrity
- d) It is used to ensure data corruption doesn't happens

View Answer

Answer: d

Explanation: Encryption doesn't have error correction or detection facility thus cannot be used to safeguard from data corruption.

- 3. What is cipher-block chaining?
- a) Data is logically 'ANDed' with previous block
- b) Data is logically 'ORed' with previous block
- c) Data is logically 'XORed' with previous block
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 4. What is not an encryption standard?
- a) AES
- b) TES
- c) Triple DES
- d) DES

View Answer

Answer: b

Explanation: None.

- 5. Which of following is not a stream cipher?
- a) Two fish
- b) RC5
- c) RC4
- d) TBONE

View Answer

Answer: d

- 6. What is a Hash Function?
- a) It creates a small flexible block of data

b) It creates a small, fixed block of data	
c) It creates a encrypted block of data	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
7 MD5 1 12 1 1 1 1	
7. MD5 producesbits hash data.	
a) 128	
b) 150	
c) 160	
d) 112	
View Answer	
Angreem	
Answer: a	
Explanation: None.	
8. SHA-1 produces bit of hash.	
a) 128	
b) 160	
c) 150	
d) 112	
View Answer	
Answer: b	
Explanation: None.	
9. Which two of the following are authentication algorithms?	
a) MAC	
b) AES	
c) DAS	
d) Digital-signature	
View Answer	
W CITILLE AND IN	
Answer: a	
Explanation: None.	
10. What is role of Key Distribution Center?	
a) It is used to distribute keys to everyone in world	

- b) It intended to reduce the risks inherent in exchanging keys
- c) all of the mentioned
- d) none of the mentioned

Answer: b

# **Operating System Questions & Answers – Secondary Storage**

1. Which one of the following is not a secondary storage a) Magnetic disks	.?
b) Magnetic tapes	
c) RAM	
d) None of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
2 Which minutes about the state of the state	
2. Which private network uses storage protocol rather th	nain networking protocor?
a) storage area network b) local area network	
c) wide area network	
d) none of the mentioned	
View Answer	
View Aliswei	
Answer: a	
Explanation: None.	
Explanation: Profice	
3. The time for the disk arm to move the heads to the cyl	linder containing the desired sector is called
a) disk time	8
b) seek time	
c) arm time	
d) sector time	
View Answer	
Answer: b	
Explanation: None.	
CODEIN	ITHERREWICK
	t with the least seek time from the current head positions?
a) SSTF scheduling	
b) FCFS scheduling	
c) SCAN scheduling	
d) LOOK scheduling	
View Answer	
Answer: a	
Explanation: None.	
5. Operating system is responsible for	
a) disk initialization	
b) booting from disk	
c) bad-block recovery	
d) all of the mentioned	
View Answer	
Answer: d	
Explanation: None.	
Explanation: None.	
6. A gwan angae gan rasida in	
<ul><li>6. A swap space can reside in</li><li>a) Separate disk partition</li></ul>	
b) RAM	
U) IXI XIVI	

- c) Cache
- d) None of the mentioned

Answer: a

Explanation: None.

- 7. RAID level 1 refers to
- a) disk arrays with striping
- b) disk mirroring
- c) both disk arrays with striping and disk mirroring
- d) none of the mentioned

View Answer

Answer: b

Explanation: A variety of disk-organization techniques is called "redundant arrays of independent disks (RAID)".

- 8. When we write something on the disk, which one of the following can not happen?
- a) successful completion
- b) partial failure
- c) total failure
- d) none of the mentioned

View Answer

Answer: d

Explanation: None.

- 9. During recovery from a failure
- a) each pair of physical block is examined
- b) specified pair of physical block is examined
- c) first pair of physical block is examined
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. The replacement of a bad block generally is not totally automatic because
- a) data in bad block can not be replaced
- b) data in bad block is usually lost
- c) bad block does not contain any data
- d) none of the mentioned

View Answer

Answer: b

# **Operating System Questions & Answers – Linux**

6. The first process launched by the linux kernel is

a) init processb) zombie process

Linux uses a time-sharing algorithm	
a) to pair preemptive scheduling between multiple processes	
b) for tasks where absolute priorities are more important than fairness	
c) all of the mentioned	
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
2. First linux kernel which supports the SMP hardware was	
a) linux 0.1	
b) linux 1.0	
c) linux 1.2	
d) linux 2.0	
View Answer	
Answer: d	
Explanation: None.	
3. Which one of the following linux file system does not support journaling feature?	
a) ext2	
b) ext3	
c) ext4	
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
4. Which binary format is supported by linux?	
a) a.out	
b) elf	
c) both a.out and ELF	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
5. Which one of the following bootloader is not used by linux?	
a) GRUB	
b) LILO	
c) NTLDR	
d) None of the mentioned	
View Answer	
Answer: c	
Explanation: None	

c) batch process	
d) boot process	
View Answer	
Answer: a	
Explanation: None.	
7. Which desktop environment is not used in any linux distribution?	
a) gnome	
b) kde	
c) unity	
d) none of the mentioned	
View Answer	
Answer: d	
Explanation: None.	
8. Standard set of functions through which interacts with kernel is defined by	
a) system libraries	
b) kernel code	
c) compilers	
d) utility programs	
View Answer	
Answer: a	
Explanation: None.	
9. Linux is	
a) single user, single tasking	
b) single user, multitasking	
c) multi user, single tasking	
d) multi user, multitasking	
View Answer	
Answer: d	
Explanation: None.	

a) debianb) gentooc) open SUSEd) multicsView Answer

Answer: d Explanation: None.

## **Operating System Questions & Answers – Threads**

- 1. Which one of the following is not shared by threads?
- a) program counter
- b) stack
- c) both program counter and stack
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 2. A process can be
- a) single threaded
- b) multithreaded
- c) both single threaded and multithreaded
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 3. If one thread opens a file with read privileges then
- a) other threads in the another process can also read from that file
- b) other threads in the same process can also read from that file
- c) any other thread can not read from that file
- d) all of the mentioned

View Answer

Answer: b

Explanation: None.

- 4. The time required to create a new thread in an existing process is
- a) greater than the time required to create a new process
- c) less than the time required to create a new process
- c) equal to the time required to create a new process
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 5. When the event for which a thread is blocked occurs,
- a) thread moves to the ready queue
- b) thread remains blocked
- c) thread completes
- d) a new thread is provided

View Answer

Answer: a

- 6. The jacketing technique is used to
- a) convert a blocking system call into non blocking system call
- b) create a new thread

- c) communicate between threads
- d) terminate a thread

Answer: a

Explanation: None.

- 7. Termination of the process terminates
- a) first thread of the process
- b) first two threads of the process\_
- c) all threads within the process
- d) no thread within the process

View Answer

Answer: c

Explanation: None.

- 8. Which one of the following is not a valid state of a thread?
- a) running
- b) parsing
- c) ready
- d) blocked

View Answer

Answer: b

Explanation: None.

- 9. The register context and stacks of a thread are deallocated when the thread
- a) terminates
- b) blocks
- c) unblocks
- d) spawns

View Answer

Answer: a

Explanation: None.

- 10. Thread synchronization is required because
- a) all threads of a process share the same address space
- b) all threads of a process share the same global variables
- c) all threads of a process can share the same files
- d) all of the mentioned

View Answer

Answer: d

## Operating System Questions and Answers – User and Kernel Threads

6. Resource sharing helps:

a) share the memory and resources of the process to which the threads belong

b) an application have several different threads of activity all within the same address space

1. A thread is also called:
a) Light Weight Process(LWP)
b) Heavy Weight Process(HWP)
c) Process
d) None of the mentioned
View Answer
Answer: a
Explanation: None.
2. A thread shares its resources(like data section, code section, open files, signals) with:
a) other process similar to the one that the thread belongs to
b) other threads that belong to similar processes
c) other threads that belong to the same process
d) all of the mentioned
View Answer
Answer: c
Explanation: None.
3. A heavy weight process:
a) has multiple threads of execution
b) has a single thread of execution
c) can have multiple or a single thread for execution
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
7 CODE WITH A DD 4 V'C /> 1
4. A process having multiple threads of control implies :
a) it can do more than one task at a time
b) it can do only one task at a time, but much faster
c) it has to use only one thread per process d) none of the mentioned
View Answer
View Allswei
Answer: a
Explanation: None.
5. Multithreading an interactive program will increase responsiveness to the user by :
a) continuing to run even if a part of it is blocked
b) waiting for one part to finish before the other begins
c) asking the user to decide the order of multithreading
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
-

c) reduce the address space that a process could potentially use d) all of the mentioned View Answer
Answer: d Explanation: None.
7 Markithan dianggaran marki. CDH marking a
7. Multithreading on a multi – CPU machine : a) decreases concurrency
b) increases concurrency
c) doesn't affect the concurrency
d) can increase or decrease the concurrency
View Answer
Answer: b
Explanation: None.
Explanation Folia.
8. The kernel is of user threads.
a) a part of
b) the creator of
c) unaware of
d) aware of
View Answer
Answer: c
Explanation: None.
9. If the kernel is single threaded, then any user level thread performing a blocking system call will: a) cause the entire process to run along with the other threads b) cause the thread to block with the other threads running c) cause the entire process to block even if the other threads are available to run d) none of the mentioned View Answer  Answer: c  Explanation: None.
10. Because the kernel thread management is done by the Operating System itself:
a) kernel threads are faster to create than user threads     b) kernel threads are slower to create than user threads
c) kernel threads are easier to manage as well as create then user threads
d) none of the mentioned
View Answer
Answer: b Explanation: None.
Explanation, 1 voile.
11. If a kernel thread performs a blocking system call,
a) the kernel can schedule another thread in the application for execution
b) the kernel cannot schedule another thread in the same application for execution
c) the kernel must schedule another thread of a different application for execution
d) the kernel must schedule another thread of the same application on a different processor View Answer
Answer: a
Explanation: None.

- 12. Which of the following is FALSE?
- a) Context switch time is longer for kernel level threads than for user level threads
- b) User level threads do not need any hardware support
- c) Related kernel level threads can be scheduled on different processors in a multiprocessor system
- d) Blocking one kernel level thread blocks all other related threads

Answer: d Explanation: None.



# Operating System Questions and Answers – Multi Threading Models

1. The model in which one kernel thread is mapped to many user-level threads is called:
a) Many to One model
b) One to Many model
c) Many to Many model
d) One to One model
View Answer
Answer: a
Explanation: None.
2. The model in which one user-level thread is mapped to many kernel level threads is called:
a) Many to One model
b) One to Many model
c) Many to Many model
d) One to One model
View Answer
Answer: b
Explanation: None.
3. In the Many to One model, if a thread makes a blocking system call:
a) the entire process will be blocked
b) a part of the process will stay blocked, with the rest running
c) the entire process will run
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
A CORFIUITII ABBANIA
4. In the Many to One model, multiple threads are unable to run in parallel on multiprocessors because:
a) only one thread can access the kernel at a time
b) many user threads have access to just one kernel thread
c) there is only one kernel thread
d) none of the mentioned
View Answer
Answer: a
Evalenation: None
Explanation: None.
Explanation. None.
5. The One to One model allows :
5. The One to One model allows :
5. The One to One model allows : a) increased concurrency
5. The One to One model allows : a) increased concurrency b) decreased concurrency
5. The One to One model allows : a) increased concurrency b) decreased concurrency c) increased or decreased concurrency
5. The One to One model allows: a) increased concurrency b) decreased concurrency c) increased or decreased concurrency d) concurrency equivalent to other models
5. The One to One model allows: a) increased concurrency b) decreased concurrency c) increased or decreased concurrency d) concurrency equivalent to other models

- 6. In the One to One model when a thread makes a blocking system call :
- a) other threads are strictly prohibited from running
- b) other threads are allowed to run

- c) other threads only from other processes are allowed to run
- d) none of the mentioned

Answer: b

Explanation: None.

- 7. Which of the following is the drawback of the One to One Model?
- a) increased concurrency provided by this model
- b) decreased concurrency provided by this model
- c) creating so many threads at once can crash the system
- d) creating a user thread requires creating the corresponding kernel thread

View Answer

Answer: d

Explanation: None.

- 8. When is the Many to One model at an advantage?
- a) When the program does not need multithreading
- b) When the program has to be multi-threaded
- c) When there is a single processor
- d) None of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. In the Many to Many model true concurrency cannot be gained because:
- a) the kernel can schedule only one thread at a time
- b) there are too many threads to handle
- c) it is hard to map threads with each other
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. In the Many to Many model when a thread performs a blocking system call:
- a) other threads are strictly prohibited from running
- b) other threads are allowed to run
- c) other threads only from other processes are allowed to run  $\,$
- d) none of the mentioned

View Answer

Answer: b

# Operating System Questions and Answers – The Fork and exec System Calls

1. Which of the following system calls does not return control to the calling point	, on termination ?
a) fork	
b) exec	
c) ioctl	
d) longjmp	
View Answer	
Answer: b	
Explanation: None.	
Explanation, None.	
results in the creation of:	
a) an orphan process	
b) a zombie process	
c) a process that executes forever	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
3. Which of the following system calls transforms executable binary file into a praint a) fork b) exec c) ioctl d) longjmp View Answer Answer: b Explanation: None.  a) only once b) twice c) four times d) eight times	ocess ?
View Answer	
Answer: c Explanation: None.	
5. Which of the following calls never returns an error ? a) getpid b) fork c) ioctl d) open View Answer Answer: a	
This wor. u	

b) the limit on the maximum number of processes in the system would be executed

c) the limit on the minimum number of processes that can be under execution by a single user would be executed

d) all of the mentioned

View Answer

Answer: b

Explanation: None.

- 7. If a thread invokes the exec system call,
- a) only the exec executes as a separate process.
- b) the program specified in the parameter to exec will replace the entire process
- c) the exec is ignored as it is invoked by a thread.
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 8. If exec is called immediately after forking,
- a) the program specified in the parameter to exec will replace the entire process
- b) all the threads will be duplicated
- c) all the threads may be duplicated
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. If a process does not call exec after forking,
- a) the program specified in the parameter to exec will replace the entire process
- b) all the threads should be duplicated
- c) all the threads should not be duplicated
- d) none of the mentioned

View Answer

Answer: b

Explanation: The new process is purely based on fork, due to no exec command, duplication will be done.

### Operating System Questions and Answers - Thread Cancellation

|--|

- a) the task of destroying the thread once its work is done
- b) the task of removing a thread once its work is done
- c) the task of terminating a thread before it has completed
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 2. When a web page is loading, and the user presses a button on the browser to stop loading the page:
- a) the thread loading the page continues with the loading
- b) the thread loading the page does not stop, but continues with another task
- c) the thread loading the page is paused
- d) the thread loading the page is cancelled

View Answer

Answer: d

Explanation: None.

- 3. When one thread immediately terminates the target thread, it is called :
- a) Asynchronous cancellation
- b) Systematic cancellation
- c) Sudden Termination
- d) Deferred cancellation

View Answer

Answer: a

Explanation: None.

- 4. When the target thread periodically checks if it should terminate and terminates itself in an orderly manner, it is called:
- a) Asynchronous cancellation
- b) Systematic cancellation
- c) Sudden Termination
- d) Deferred cancellation

View Answer

Answer: d

Explanation: None.

- 5. Cancelling a thread asynchronously:
- a) frees all the resources properly
- b) may not free each resource
- c) spoils the process execution
- d) none of the mentioned

View Answer

Answer: b

- 6. Cancellation point is the point where:
- a) the thread can be cancelled safely or otherwise doesn't matter
- b) the thread can be cancelled safely

- c) the whole process can be cancelled safely
- d) none of the mentioned

Answer: b

Explanation: None.

- 7. If multiple threads are concurrently searching through a database and one thread returns the result then the remaining threads must be :
- a) continued
- b) cancelled
- c) protected
- d) none of the mentioned

View Answer

Answer: b



#### Operating System Questions and Answers – Signal Handling

1. Signals that occur at the same time, are	e presented to the proce	ss:	
a) one at a time, in a particular order			
b) one at a time, in no particular order			
c) all at a time			
d) none of the mentioned			
View Answer			
Answer: b			
Explanation: None.			
2. Which of the following is not TRUE:			
a) Processes may send each other signals			
b) Kernel may send signals internally			
c) a field is updated in the signal table who	n the signal is sent		
d) each signal is maintained by a single bit			
View Answer			
Answer: c			
Explanation: A field is updated in the <b>proc</b>	<b>ess table</b> when the sign	nal is sent.	
3. Signals of a given type:			
a) are queued			
b) are all sent as one			
c) cannot be queued			
d) none of the mentioned			
View Answer			
	1		
Answer: b			
Explanation: The signal handler will be inv	oked only once.		
- coni	-14/17		
4. The three ways in which a process resp	onds to a signal are:		
a) ignoring the signal			
b) handling the signal			
c) performing some default action			
d) all of the mentioned			
View Answer			
Answer: d			
Explanation: None.			
Explanation. None.			
5.6: 1 :1 :5:11			
5. Signals are identified by:			
a) signal identifiers			
b) signal handlers			
c) signal actions			
d) none of the mentioned View Answer			
view Answer			
Answer: a			

- 6. When a process blocks the receipt of certain signals :
- a) The signals are delivered

Explanation: None.

b) The signals are not delivered

c) The signals are received until they are unblocked  1) The signals are received by the process once they are delivered	1
View Answer	•
Answer: a	
Explanation: None.	
7. Themaintains pending and blocked bit vectors in con	ntext of each process.
) CPU	
) Memory	
) Process	
l) Kernel	
View Answer	
Answer: d	
Explanation: None.	
Aplanation, Profic.	
B. In UNIX, the set of masked signals can be set or cleared using	thefunction.
a) sigmask	uictunction.
o) sigmaskproc	
) sigprocmask	
) sigproc	
View Answer	
inswer: c	
xplanation: None.	
they do not work between processes they are user generated they cannot carry information directly none of the mentioned View Answer Answer: c Explanation: None.	HARRAY'S/>
0. The usual effect of abnormal termination of a program is:	
) core dump file generation	
) system crash	
) program switch	
) signal destruction liew Answer	
ICW / MISWOI	
answer: a	
Explanation: None.	
	ne calling process, causing abnormal termination.
) SIGTERM	
) SIGSTOP	
) SIGABORT	
) SIGABRT	
Yiew Answer	
answer: d	

12. <b>In most cases</b> , if a process is sent a signal while it is executing a system call:
<ul><li>a) the system call will continue execution and the signal will be ignored completely</li><li>b) the system call is interrupted by the signal, and the signal handler comes in</li></ul>
c) the signal has no effect until the system call completes
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
13. A process can never be sure that a signal it has sent
a) has which identifier
b) has not been lost c) has been sent
d) all of the mentioned
View Answer
VIEW THISWEI
Answer: b
Explanation: None.
14. In UNIX, thesystem call is used to send a signal.
a) sig
b) send
c) kill
d) sigsend
View Answer
Answer: c
Explanation: None.
Displantion Folic.
<codewitharray's></codewitharray's>
A SCUDE WILLHARMAI 3/21

#### **Operating System Questions and Answers – Thread Pools**

- a) when we need to limit the number of threads running in the application at the same time
- b) when we need to limit the number of threads running in the application as a whole
- c) when we need to arrange the ordering of threads
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 2. Instead of starting a new thread for every task to execute concurrently, the task can be passed to a \_
- a) process
- b) thread pool
- c) thread queue
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 3. Each connection arriving at multi threaded servers via network is generally:
- a) is directly put into the blocking queue
- b) is wrapped as a task and passed on to a thread pool
- c) is kept in a normal queue and then sent to the blocking queue from where it is dequeued
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 4. The idea behind thread pools is:
- a) a number of threads are created at process startup and placed in a pool where they sit and wait for work
- b) when a process begins, a pool of threads is chosen from the many existing and each thread is allotted equal amount of work
- c) all threads in a pool distribute the task equally among themselves
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 5. If the thread pool contains no available thread:
- a) the server runs a new process
- b) the server goes to another thread pool
- c) the server demands for a new pool creation
- d) the server waits until one becomes free

View Answer

Answer: d

- 6. Thread pools help in:
- a) servicing multiple requests using one thread
- b) servicing a single request using multiple threads from the pool

- c) faster servicing of requests with an existing thread rather than waiting to create a new thread
- d) none of the mentioned

Answer: c

Explanation: None.

- 7. Thread pools limit the number of threads that exist at any one point, hence :
- a) not letting the system resources like CPU time and memory exhaust
- b) helping a limited number of processes at a time
- c) not serving all requests and ignoring many
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. The number of the threads in the pool can be decided on factors such as:
- a) number of CPUs in the system
- b) amount of physical memory
- c) expected number of concurrent client requests
- d) all of the mentioned

View Answer

Answer: d



# **Operating System Questions & Answers – Virtual Memory**

b) hit ratio

1. Because of virtual memory, the memory can be shared among
a) processes
b) threads
c) instructions
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
Explanation: Notice.
2is the concept in which a process is copied into main memory from the secondary memory according to the requirement.
2is the concept in which a process is copied into main memory from the secondary memory according to the requirement.  a) Paging
b) Demand paging
c) Segmentation
d) Swapping
View Answer
VICW MISWEI
Answer: b
Explanation: None.
3. The pager concerns with the
a) individual page of a process
b) entire process
c) entire thread
d) first page of a process
View Answer
Answer: a
Explanation: None.
4. Swap space exists in
a) primary memory
b) secondary memory
c) cpu
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
5. When a program tries to access a page that is mapped in address space but not loaded in physical memory, then
a) segmentation fault occurs
b) fatal error occurs
c) page fault occurs
d) no error occurs
View Answer
Answer; c
Explanation: None.
6. Effective access time is directly proportional to
a) page-fault rate
· A ·

- c) memory access time
- d) none of the mentioned

Answer: a

Explanation: None.

- 7. In FIFO page replacement algorithm, when a page must be replaced
- a) oldest page is chosen
- b) newest page is chosen
- c) random page is chosen
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. Which algorithm chooses the page that has not been used for the longest period of time whenever the page required to be replaced?
- a) first in first out algorithm
- b) additional reference bit algorithm
- c) least recently used algorithm
- d) counting based page replacement algorithm

View Answer

Answer: c

Explanation: None.

- 9. A process is thrashing if
- a) it is spending more time paging than executing
- b) it is spending less time paging than executing
- c) page fault occurs
- d) swapping can not take place

View Answer

Answer: a

Explanation: None.

- 10. Working set model for page replacement is based on the assumption of
- a) modularity
- b) locality
- c) globalization
- d) random access

View Answer

Answer: b

# Operating System Questions & Answers – Virtual Memory – Demand Paging

1. Virtual memory allows:
a) execution of a process that may not be completely in memory
b) a program to be smaller than the physical memory
c) a program to be larger than the secondary storage
d) execution of a process without being in physical memory
View Answer
Answer: a
Explanation: None.
2. The instruction being executed, must be in:
a) physical memory
b) logical memory
c) physical & logical memory
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
3. Error handler codes, to handle unusual errors are :
a) almost never executed
b) executed very often
c) executed periodically
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
4. The ability to execute a program that is only partially in memory has benefits like:
a) The amount of physical memory cannot put a constraint on the program
b) Programs for an extremely large virtual space can be created
c) Throughput increases
d) All of the mentioned
View Answer
View Allswei
Answer: d
Explanation: None.
2.17
5. In virtual memory, the programmerof overlays.
a) has to take care
b) does not have to take care
c) all of the mentioned
d) none of the mentioned
View Answer
The William Co.
Answer: b
Explanation: None.
6. Virtual memory is normally implemented by
a) demand paging
b) buses

c) virtualization		
d) all of the mentioned		
View Answer		
Answer: a		
Explanation: None.		
7 Segment replacement algorithms are	more complex than page replacement algorithms bec	once .
a) Segments are better than pages	more complex than page replacement algorithms bec	ause.
b) Pages are better than segments		
c) Segments have variable sizes		
d) Segments have fixed sizes		
View Answer		
Answer: c		
Explanation: None.		
9 A		
8. A swapper manipulates	whereas the pager is concerned with individual	of a process.
<ul><li>a) the entire process, parts</li><li>b) all the pages of a process, segments</li></ul>		
c) the entire process, pages		
d) none of the mentioned		
View Answer		
12.10 11 01 01		
Answer: c		
Explanation: None.		
9. Using a pager:		
a) increases the swap time		
b) decreases the swap time		
c) decreases the swap time & amount of		
d) increases the amount of physical men	mory needed	
View Answer		
Answer: c	- WIIHAW	
Explanation: None.	L	
Explanation, None.		
10. The valid – invalid bit, in this case,	when valid indicates :	
a) the page is not legal		
b) the page is illegal		
c) the page is in memory		
d) the page is not in memory		
View Answer		
Answer: c		
Explanation: None.		
11 A page fault occurs when		
11. A page fault occurs when: a) a page gives inconsistent data		
b) a page cannot be accessed due to its	absence from memory	
c) a page is invisible	dosence from memory	
d) all of the mentioned		
View Answer		
Answer: b Explanation: None.		

12. When a page fault occurs, the state of the interrupted process is:
a) disrupted
b) invalid
c) saved
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
13. When a process begins execution with no pages in memory:
a) process execution becomes impossible
b) a page fault occurs for every page brought into memory
c) process causes system crash
d) none of the mentioned
View Answer
VIEW PHISWEI
Answer: b
Explanation: None.
14. If the memory access time is denoted by 'ma' and 'p' is the probability of a page fault (0 <= p <= 1). Then the effective access time for a demand paged memory is:  a) p x ma + (1-p) x page fault time b) ma + page fault time c) (1-p) x ma + p x page fault time d) none of the mentioned View Answer  Answer: c  Explanation: None.
15. When the page fault rate is low: a) the turnaround time increases b) the effective access time increases c) the effective access time decreases d) turnaround time & effective access time increases View Answer
Answer: c
Explanation: None.
16. Locality of reference implies that the page reference being made by a process:  a) will always be to the page used in the previous page reference  b) is likely to be one of the pages used in the last few page references  c) will always be one of the pages existing in memory  d) will always lead to page faults
a) minumajo ieuu to pugo iuum

Answer: b Explanation: None.

#### Operating System Questions & Answers – Virtual Memory – Page Replacement Algorithms – 1

1. Which of the following page replacement algorithms suffers from Belady's Anomaly	<i>!</i> ?
a) Optimal replacement	
b) LRU	
c) FIFO	
d) Both optimal replacement and FIFO	
View Answer	
Answer: c	
Explanation: None.	
2. A process refers to 5 pages, A, B, C, D, E in the order: A, B, C, D, A, B, E, A, B,	, C, D, E. If the page replacement algorithm is FIFO, the
number of page transfers with an empty internal store of 3 frames is:	
a) 8	
b) 10	
c) 9	
d) 7	
View Answer	
TEN THE WEI	
Answer: c	
Explanation: None.	
3. In question 2, if the number of page frames is increased to 4, then the number of page	ge transfers :
a) decreases	go transfers .
b) increases	
c) remains the same	
d) none of the mentioned	
View Answer	
VICW THISWEI	
Answer: b	
Explanation: None.	
4. A memory page containing a heavily used variable that was initialized very early and	d is in constant use is removed, then the page replacement
algorithm used is:	a is in constant use is removed, then the page replacement
a) LRU	
b) LFU	
c) FIFO	
d) None of the mentioned	
View Answer	
View Allswei	
Answer: c	
Explanation: None.	
Displantation 1 tolle.	
5 A virtual mamory system uses First In First Out (FIFO) page confedement policy on	d allocates a fixed number of frames to a process
5. A virtual memory system uses First In First Out (FIFO) page replacement policy an	d anocates a fixed number of frames to a process.
Consider the following statements:	h fl44-
P: Increasing the number of page frames allocated to a process sometimes increases t	ne page raun rate
Q : Some programs do not exhibit locality of reference	
Which of the following is TRUE?	
a) Both P and Q are true, and Q is the reason for P	

b) Both P and Q are true, but Q is not the reason for P

c) P is false but Q is trued) Both P and Q are false

View Answer

Answer: c Explanation: None.
6. Usersthat their processes are running on a paged system.
a) are aware
b) are unaware
c) may unaware
c) none of the mentioned
View Answer
Answer: b
Explanation: None.
7. If no frames are free,page transfer(s) is/are required.
a) one
b) two
c) three
d) four
View Answer
Answer: b
Explanation: None.
8. When a page is selected for replacement, and its modify bit is set:
a) the page is clean
b) the page has been modified since it was read in from the disk
c) the page is dirty
d) the page has been modified since it was read in from the disk & page is dirty
View Answer
Answer: d
Explanation: None.
T. CODEWITH AND A V/C/
9. The aim of creating page replacement algorithms is to :
a) replace pages faster
b) increase the page fault rate c) decrease the page fault rate
d) to allocate multiple pages to processes
View Answer
Answer: c
Explanation: None.
10. A FIFO replacement algorithm associates with each page the
a) time it was brought into memory
b) size of the page in memory
c) page after and before it
d) all of the mentioned
View Answer
Answer: a
Explanation: None.
<u>r</u>
11. Optimal page – replacement algorithm is:
a) Replace the page that has not been used for a long time
, , , , , , , , , , , , , , , , , , , ,

b) Replace the page that has been used for a long time

d) Name of the mantioned	
d) None of the mentioned View Answer	
view Answer	
Answer: c	
Explanation: None.	
·	
12. Optimal page – replacement algorithm is difficult to implement, because :	
a) it requires a lot of information	
b) it requires future knowledge of the reference string	
c) it is too complex	
d) it is extremely expensive	
View Answer	
Answer: b	
Explanation: None.	
13. LRU page – replacement algorithm associates with each page the	
a) time it was brought into memory	
b) the time of that page's last use	
c) page after and before it	
d) all of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
14. For 3 page frames, the following is the reference string:	
70120304230321201701	
How many page faults does the LRU page replacement algorithm produce ?	
a) 10	
b) 15	
c) 11	
d) 12	
d) 12 View Answer	
Answer: d	
Explanation: None.	
15. The two methods how LRU page replacement policy can be implemented in hardware are:	
a) Counters	
b) RAM & Registers	
c) Stack & Counters	
d) Registers	
View Answer	

Answer: c Explanation: None.

# $Operating\ System\ Questions\ \&\ Answers-Virtual\ Memory-Page\ Replacement\ Algorithms-2$

1. When using counters to implement LRU, we replace the page with the :
a) smallest time value
b) largest time value
c) greatest size
d) none of the mentioned
View Answer
Answer: a
Explanation: Whenever a reference to a page is made, the contents of the clock register are copied into the time-of-use field in the page-table
entry for that page. In this way we always have the time of the last reference to each page.
2. In the stack implementation of the LRU algorithm, a stack can be maintained in a manner:
a) whenever a page is used, it is removed from the stack and put on bottom
b) the bottom of the stack is the LRU page
c) the top of the stack contains the LRU page and all new pages are added to the top
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation. Ivolic.
2. There is a set of reasonant electifishes that can never exhibit Delective Anomaly, called
3. There is a set of page replacement algorithms that can never exhibit Belady's Anomaly, called:
a) queue algorithms b) stock algorithms
b) stack algorithms c) string algorithms
d) none of the mentioned
View Answer
VICW Allswei
Answer: b
Explanation: None.
* >I'IIIIL WIII LIADDA V'C'
4. Applying the LRU page replacement to the following reference string:
12452124
The main memory can accommodate 3 pages and it already has pages 1 and 2. Page 1 came in before page 2.
How many page faults will occur?
a) 2
b) 3
c) 4
d) 5
View Answer
Answer: c
Explanation: None.
5 In any sing the DAM of a second set with the immension of
5. Increasing the RAM of a computer typically improves performance because:
a) Virtual memory increases
b) Larger RAMs are faster
c) Fewer page faults occur d) None of the mantioned
ALINONE OF THE MENDOMED

View Answer

Answer: c Explanation: None.

- 6. The essential content(s) in each entry of a page table is  $\slash$  are : a) Virtual page number
- b) Page frame number
- c) Both virtual page number and page frame number
- d) Access right information

Answer: b

Explanation: None.

- 7. The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by:
- a) the instruction set architecture
- b) page size
- c) physical memory size
- d) number of processes in memory

View Answer

Answer: a

Explanation: None.

- 8. The reason for using the LFU page replacement algorithm is:
- a) an actively used page should have a large reference count
- b) a less used page has more chances to be used again
- c) it is extremely efficient and optimal
- d) all of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. The reason for using the MFU page replacement algorithm is:
- a) an actively used page should have a large reference count
- b) a less used page has more chances to be used again
- c) it is extremely efficient and optimal
- d) all of the mentioned

View Answer

Answer: b

Explanation: None.

- 10. The implementation of the LFU and the MFU algorithm is very uncommon because :
- a) they are too complicated
- b) they are optimal
- c) they are expensive
- d) all of the mentioned

View Answer

Answer: c

# Operating System Questions & Answers – Virtual Memory – Allocation of Frames

1. The minimum number of frames to be allocated to a process is decided by the :	
a) the amount of available physical memory	
b) operating System c) instruction set architecture	
d) none of the mentioned	
View Answer	
view Allswei	
Answer: c	
Explanation: None.	
2. When a page fault occurs before an executing instruction is complete:	
a) the instruction must be restarted	
b) the instruction must be ignored	
c) the instruction must be completed ignoring the page fault	
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
3. Consider a machine in which all memory reference instructions have only one memory address, for them we need at least	frame(s).
a) one	
b) two	
c) three	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: At least one frame for the instruction and one for the memory reference.	
4. The maximum number of frames per process is defined by:	
a) the amount of available physical memory	
b) operating System	
c) instruction set architecture	
d) none of the mentioned	
View Answer	
VICW THISWEI	
Answer: a	
Explanation: None.	
5. The algorithm in which we split m frames among n processes, to give everyone an equal share, m/n frames is known as:	
a) proportional allocation algorithm	
b) equal allocation algorithm	
c) split allocation algorithm	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
6. The algorithm in which we allocate memory to each process according to its size is known as:	
a) proportional allocation algorithm	
b) equal allocation algorithm	

c) split allocation algorithm d) none of the mentioned	
View Answer  Answer: a  Explanation: None.	
7. With either equal or proportional algorithm, a high priority process is treateda) greater than	_a low priority process.
b) same as	
c) lesser than	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
8replacement allows a process to select a replacement frame from the some other process. a) Local b) Universal	set of all frames, even if the frame is currently allocated to
c) Global	
d) Public	
View Answer	
Answer: c	
Explanation: None.	
9replacement allows each process to only select from its own set of all a) Local b) Universal c) Global d) Public View Answer Answer: a Explanation: None.	ocated frames.
10. One problem with the global replacement algorithm is that:	
a) it is very expensive	
b) many frames can be allocated to a process	
c) only a few frames can be allocated to a process	
d) a process cannot control its own page – fault rate	
View Answer	
Answer: d Explanation: None.	
11replacement generally results in greater system throughput.	
a) Local	
b) Global	
c) Universal	
d) Public	
View Answer	
Answer: b Explanation: None.	



# Operating System Questions & Answers – Virtual Memory – Thrashing

1. A process is thrashing if:
a) it spends a lot of time executing, rather than paging
b) it spends a lot of time paging, than executing
c) it has no memory allocated to it
d) none of the mentioned View Answer
view Answer
Answer: b
Explanation: None.
2. Thrashing the CPU utilization.
a) increases
b) keeps constant
c) decreases
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
3. A locality is:
a) a set of pages that are actively used together
b) a space in memory
c) an area near a set of processes
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
4. When a subroutine is called,
a) it defines a new locality
b) it is in the same locality from where it was called
c) it does not define a new locality
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
5. A program is generally composed of several different localities, whichoverlap.
a) may
b) must
c) do not
d) must not
View Answer
Answer: a
Explanation: None.
6. In the working set model, for :
2 6 1 5 7 7 7 7 5 1 6 2 3 4 1 2 3 4 4 4 3 4 3 4 4 4 1 3 2 3
if DELTA = 10, then the working set at time t1 (7 5 1) is:

a) {1, 2, 4, 5, 6} b) {2, 1, 6, 7, 3}
c) {1, 6, 5, 7, 2} d) {1, 2, 3, 4, 5} View Answer
Answer: c
Explanation: None.
7. The accuracy of the working set depends on the selection of:
a) working set model
b) working set size
c) memory size
d) number of pages in memory
View Answer
Answer: b
Explanation: None.
Explanation 7 tole.
8. If working set window is too small:
a) it will not encompass entire locality
b) it may overlap several localities
c) it will cause memory problems
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
9. If working set window is too large:
a) it will not encompass entire locality
b) it may overlap several localities c) it will cause memory problems
d) none of the mentioned
d) none of the mentioned View Answer
Answer: b
Explanation: None.
10. If the sum of the working – set sizes increases, exceeding the total number of available frames:
a) then the process crashes
b) the memory overflows
c) the system crashes
d) the operating system selects a process to suspend
View Answer
Answer: d
Explanation: None.
11. Consider the following page reference string:
12342156212376321236
For LRU page replacement algorithm with 4 frames, the number of page faults is:
a) 10
b) 14

c) 8 d) 11 View Answer

Answer: a Explanation: None.	
12. Consider the following page reference string:	
12342156212376321236	
For LRU page replacement algorithm with 5 frames, the number of page faults is:	
a) 10	
b) 14	
c) 8	
d) 11	
View Answer	
Answer: c	
Explanation: None.	
LApididion. Fonc.	
13. Consider the following page reference string:	
12342156212376321236	
For FIFO page replacement algorithms with 3 frames, the number of page faults is:	
a) 16	
b) 15	
c) 14	
d) 11	
View Answer	
View Alliswei	
Answer: a	
Explanation: None.	
14. Consider the following page reference string:	
12342156212376321236	
For FIFO page replacement algorithms with 4 frames, the number of page faults is:	
a) 16	
b) 15	
c) 14 d) 11	
d) 11	
View Answer	
Answer: c	
Explanation: None.	
15. Consider the following page reference string:	
1 2 3 4 2 1 5 6 2 1 2 3 7 6 3 2 1 2 3 6	

For Optimal page replacement algorithms with 3 frames, the number of page faults is :

a) 16 b) 15 c) 14 d) 11 View Answer

Answer: d Explanation: None.

# **Operating System Questions & Answers – File System Concepts**

<ol> <li> is a unique tag, usually a number, identifies the file within the file system.</li> <li>a) File identifier</li> <li>b) File name</li> <li>c) File type</li> <li>d) None of the mentioned</li> <li>View Answer</li> </ol>
Answer: a Explanation: None.
2. To create a file a) allocate the space in file system b) make an entry for new file in directory c) allocate the space in file system & make an entry for new file in directory d) none of the mentioned View Answer Answer: c
Explanation: None.
3. By using the specific system call, we can a) open the file b) read the file c) write into the file d) all of the mentioned View Answer
Answer: d Explanation: None.
4. File type can be represented by a) file name b) file extension c) file identifier d) none of the mentioned View Answer
Answer: b Explanation: None.
<ul> <li>5. Which file is a sequence of bytes organized into blocks understandable by the system's linker?</li> <li>a) object file</li> <li>b) source file</li> <li>c) executable file</li> <li>d) text file</li> <li>View Answer</li> </ul>
Answer: a Explanation: None.
6. What is the mounting of file system? a) crating of a filesystem b) deleting a filesystem

- c) attaching portion of the file system into a directory structure
- d) removing portion of the file system into a directory structure

Answer: c

Explanation: None.

- 7. Mapping of file is managed by
- a) file metadata
- b) page table
- c) virtual memory
- d) file system

View Answer

Answer: a

Explanation: None.

- 8. Mapping of network file system protocol to local file system is done by
- a) network file system
- b) local file system
- c) volume manager
- d) remote mirror

View Answer

Answer: a

Explanation: None.

- 9. Which one of the following explains the sequential file access method?
- a) random access according to the given byte number
- b) read bytes one at a time, in order
- c) read/write sequentially by record
- d) read/write randomly by record

View Answer

Answer: b

Explanation: None.

- 10. file system fragmentation occurs when
- a) unused space or single file are not contiguous
- b) used space is not contiguous
- c) unused space is non-contiguous
- d) multiple files are non-contiguous

View Answer

Answer: a

# **Operating System Questions & Answers – File System Implementation**

6. What is raw disk?a) disk without file system

b) empty disk

1. Management of metadata information is done by
a) file-organisation module
b) logical file system
c) basic file system
d) application programs
View Answer
Answer: b
Explanation: None.
2. A file control block contains the information about
a) file ownership
b) file permissions
c) location of file contents
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
3. Which table contains the information about each mounted volume?
a) mount table
b) system-wide open-file table
c) per-process open-file table
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
a conculities and vie /
4. To create a new file application program calls
a) basic file system
b) logical file system
c) file-organisation module
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
5. When a process closes the file
a) per-process table entry is not removed
b) system wide entry's open count is decremented
c) all of the mentioned
d) none of the mentioned
View Answer
Answer: b
Explanation: None.

- c) disk lacking logical file system
- d) disk having file system

Answer: a

Explanation: None.

- 7. The data structure used for file directory is called
- a) mount table
- b) hash table
- c) file table
- d) process table

View Answer

Answer: b

Explanation: None.

- 8. In which type of allocation method each file occupy a set of contiguous block on the disk?
- a) contiguous allocation
- b) dynamic-storage allocation
- c) linked allocation
- d) indexed allocation

View Answer

Answer: a

Explanation: None.

- 9. If the block of free-space list is free then bit will
- a) 1
- b) 0
- c) any of 0 or 1
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. Which protocol establishes the initial logical connection between a server and a client?
- a) transmission control protocol
- b) user datagram protocol
- c) mount protocol
- d) datagram congestion control protocol

View Answer

Answer: c

# Operating System Questions & Answers – File System Interface Access Methods – 1 1. Data cannot be written to secondary storage unless written within a \_ a) file b) swap space c) directory d) text format View Answer Answer: a Explanation: None. 2. File attributes consist of: a) name b) type c) identifier d) all of the mentioned View Answer Answer: d Explanation: None. 3. The information about all files is kept in: a) swap space b) operating system c) seperate directory structure d) none of the mentioned View Answer Answer: c Explanation: None. 4. A file is a/an\_ data type. a) abstract b) primitive c) public d) private View Answer Answer: a Explanation: None. 5. The operating system keeps a small table containing information about all open files called: a) system table b) open-file table

6. In UNIX, the open system call returns:

c) file tabled) directory tableView Answer

Answer: b Explanation: None.

- a) pointer to the entry in the open file table
- b) pointer to the entry in the system wide table

c) a file to the process calling it
d) none of the mentioned View Answer
Answer: a Explanation: None.
7. System wide table in UNIX contains process independent information such as:
a) location of file on disk
b) access dates
c) file size
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
8. The open file table has a/anassociated with each file. a) file content
b) file permission
c) open count
d) close count
View Answer
Answer: c
Explanation: open count indicates the number of processes that have the file open.
9. The file name is generally split into two parts:
a) name & identifier
b) identifier & type c) extension & name
d) type & extension
View Answer
Answer: c
Explanation: None.

#### Operating System Questions & Answers – File System Interface Access Methods – 2 stored at the beginning of a some files to indicate roughly the type of file. 1. The UNIX sytem uses a/an a) identifier b) extension c) virtual number d) magic number View Answer Answer: d Explanation: None. 2. The larger the block size, the \_\_\_\_\_the internal fragmentation. a) greater b) lesser c) same d) none of the mentioned View Answer Answer: a Explanation: None. 3. In the sequential access method, information in the file is processed: a) one disk after the other, record access doesnt matter b) one record after the other c) one text document after the other d) none of the mentioned View Answer Answer: b Explanation: None. 4. Sequential access method on random access devices a) works well b) doesnt work well c) maybe works well and doesnt work well d) none of the mentioned View Answer Answer: a Explanation: None. 5. The direct access method is based on a \_\_\_\_\_ model of a file, as \_\_\_\_\_ allow random access to any file block. a) magnetic tape, magnetic tapes b) tape, tapes c) disk, disks d) all of the mentioned

6. For a direct access file:

View Answer

Answer: c Explanation: None.

- a) there are restrictions on the order of reading and writing
- b) there are no restrictions on the order of reading and writing

- c) access is restricted permission wise
- d) access is not restricted permission wise

Answer: b

Explanation: None.

- 7. A relative block number is an index relative to:
- a) the beginning of the file
- b) the end of the file
- c) the last written position in file
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. The index contains:
- a) names of all contents of file
- b) pointers to each page
- c) pointers to the various blocks
- d) all of the mentioned

View Answer

Answer: c

Explanation: None.

9. For large files, when the index itself becomes too large to be kept in memory:

DEWITHAR

- a) index is called
- b) an index is created for the index file
- c) secondary index files are created
- d) all of the mentioned

View Answer

Answer: b
Explanation: None.

#### Operating System Questions & Answers – File System Interface Directory Structure – $\mathbf{1}$

<ol> <li>To organise file systems on disk, :</li> <li>a) they are split into one or more partitions</li> <li>b) information about files is added to each partition</li> <li>c) they are made on different storage spaces</li> <li>d) all of the mentioned</li> <li>View Answer</li> </ol>
Answer: b Explanation: None.
2. The directory can be viewed as a that translates file names into their directory entries.  a) symbol table b) partition c) swap space d) cache View Answer
Answer: a Explanation: None.
3. In the single level directory: a) All files are contained in different directories all at the same level b) All files are contained in the same directory c) Depends on the operating system d) None of the mentioned View Answer
Answer: b Explanation: None.
4. In the single level directory: a) all directories must have unique names b) all files must have unique names c) all files must have unique owners d) all of the mentioned View Answer
Answer: b Explanation: None.
5. In the two level directory structure : a) each user has his/her own user file directory b) the system doesn't its own master file directory c) all of the mentioned d) none of the mentioned View Answer
Answer: a Explanation: None.
6. When a user job starts in a two level directory system, or a user logs in : a) the users user file directory is searched b) the system's master file directory is not searched

c) the master file directory is indexed by user name or account number, and each entry points to the UFD for that user d) all of the mentioned View Answer
Answer: c Explanation: None.
7. When a user refers to particular file: a) system MFD is searched b) his own UFD is not searched
c) both MFD and UFD are searched d) every directory is searched View Answer
Answer: c Explanation: None.
8. The disadvantage of the two level directory structure is that: a) it does not solve the name collision problem b) it solves the name collision problem c) it does not isolate users from one another d) it isolates users from one another View Answer
Answer : d Explanation: None.
9. In the tree structured directories, a) the tree has the stem directory b) the tree has the leaf directory c) the tree has the root directory d) all of the mentioned
View Answer  Answer : c  Explanation: None.
10. The current directory contains, most of the files that are: a) of current interest to the user b) stored currently in the system c) not used in the system d) not of current interest to the system
d) not of current interest to the system View Answer  Answer: a

11. Path names can be of two types:

- a) absolute & relative
- b) local & global
- c) global & relative

Explanation: None.

d) relative & local

View Answer

Answer: a

# Operating System Questions & Answers – File System Interface Directory Structure – $\mathbf{2}$

1. An absolute path name begins at the :
a) leaf b) stem
c) current directory
d) root
View Answer
Answer: d
Explanation: None.
Ziphilimin 1 tolic
2. A relative path name begins at the :
a) leaf
b) stem
c) current directory
d) root
View Answer
Anguerra
Answer: c
Explanation: None.
3. In tree structure, when deleting a directory that is not empty:
a) The contents of the directory are safe
b) The contents of the directory are also deleted
c) contents of the directory are not deleted
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
T CODEWITH AND A V/C /
4. When two users keep a subdirectory in their own directories, the structure being referred to is:
a) tree structure
b) cyclic graph directory structure
c) two level directory structure
d) acyclic graph directory View Answer
VIEW Allswei
Answer: d
Explanation: None.
5. A tree structurethe sharing of files and directories.
a) allows
b) may restrict
c) restricts
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
Enplantation 1 voice.
6. With a shared file:
a) actual file exists
b) there are two copies of the file

c) the changes made by one person	
<ul><li>d) the changes made by one person</li><li>View Answer</li></ul>	are reflected to the other
Answer: d	
Explanation: None.	
7. In UNIX, a link is :	
a) a directory entry	
) a pointer to another file or subdi	
) implemented as an absolute or re	lative path name
) all of the mentioned	
iew Answer	
answer : d	
xplanation: None.	
	he links when traversing directory trees, to preserve the acyclic structure of the system.
considers	
) ignores	
deletes none of the mentioned	
iew Answer	
nswer : b	
xplanation: None.	
The deletion of a link	the existing file
The deletion of a link,	_the original file.
affects	
does not affect	
none of the mentioned	
iew Answer	
nswer : c	IF WITHARRAY'S/>
xplanation: None.	LWIIIMANAI 3/-
0. When keeping a list of all the lin	ks/references to a file, and the list is empty, implies that :
the file has no copies	
the file is deleted	
the file is hidden	
none of the mentioned iew Answer	
iew Aliswei	
nswer : b	
xplanation: None.	
	ce count maybe non zero, even when it is no longer possible to refer to a directory or file, due to
the possibility of one hidden refer	
the possibility of two hidden refe the possibility of self referencing	Terices
none of the mentioned	
iew Answer	
nswer : c	
Explanation: None.	

#### Operating System Questions & Answers – File System Interface Mounting and Sharing

<ol> <li>A mount point is :</li> <li>a) an empty directory at which the mounted file system will be attached</li> <li>b) a location where every time file systems are mounted</li> <li>c) is the time when the mounting is done</li> <li>d) none of the mentioned</li> <li>View Answer</li> </ol>
Answer: a Explanation: None.
2. When a file system is mounted over a directory that is not empty:  a) the system may not allow the mount b) the system must allow the mount c) the system may allow the mount and the directory's existing files will then be made obscure d) all of the mentioned View Answer  Answer: c Explanation: None.
3. In UNIX, exactly which operations can be executed by group members and other users is definable by : a) the group's head b) the file's owner c) the file's permissions d) all of the mentioned View Answer
Answer: b Explanation: None.
4. A processlower the priority of another process, if both are owned by the same owner.  a) must b) can c) cannot d) none of the mentioned View Answer
Answer: b Explanation: None.
5. In distributed file system,directories are visible from the local machine. a) protected b) local c) private d) remote View Answer
Answer: d Explanation: None.
6. In the world wide web, ais needed to gain access to the remote files, and separate operations are used to transfer files.  a) laptop b) plugin

e) browser	
i) player	
View Answer	
Answer: c	
Explanation: None.	
7. Anonymous access allows a user to transfer files:	
) without having an account on the remote system	
only if he accesses the system with a guest account	
) only if he has an account on the remote system	
) none of the mentioned	
View Answer	
Answer: a	
Explanation: The world wide web uses anonymous file exchange almost exclusively.	
3. The machine containing the files is the and the machine wanting to access the files is the	
and the machine containing the mes is the	
) memory, user	
) server, client	
) none of the mentioned	
View Answer	
answer: c	
xplanation: None.	
p) provide unified access to the information needed for remote computing p) provide unique names to all systems in a network p) all of the mentioned Wiew Answer	
Answer: b	
Answer: b Explanation: None.	
Answer: b Axplanation: None.  0. Domain name system provides:	
Answer: b Explanation: None.  0. Domain name system provides: 1) host-name-to-network-address translations for the entire internet	
xplanation: None.  0. Domain name system provides: ) host-name-to-network-address translations for the entire internet ) network-address-to-host-name translations for the entire internet ) binary to hex translations for the entire internet	
nswer: b xplanation: None.  Domain name system provides: host-name-to-network-address translations for the entire internet network-address-to-host-name translations for the entire internet binary to hex translations for the entire internet all of the mentioned	
xplanation: None.  0. Domain name system provides: 0 host-name-to-network-address translations for the entire internet 0 network-address-to-host-name translations for the entire internet 0 binary to hex translations for the entire internet 0 all of the mentioned	
Answer: b Explanation: None.  O. Domain name system provides: ) host-name-to-network-address translations for the entire internet ) network-address-to-host-name translations for the entire internet ) binary to hex translations for the entire internet ) all of the mentioned View Answer	
20. Domain name system provides : 10) host-name-to-network-address translations for the entire internet 11) network-address-to-host-name translations for the entire internet 12) binary to hex translations for the entire internet 13) all of the mentioned 14) if the mentioned 15) if the mentioned 16) if the mentioned 17) if the mentioned 18) if the mentioned 19) if	
xplanation: None.  0. Domain name system provides: 1 host-name-to-network-address translations for the entire internet 2 network-address-to-host-name translations for the entire internet 3 binary to hex translations for the entire internet 4 all of the mentioned 5 iew Answer 6 inswer: a	
answer: b xplanation: None.  0. Domain name system provides: ) host-name-to-network-address translations for the entire internet ) network-address-to-host-name translations for the entire internet ) binary to hex translations for the entire internet ) all of the mentioned liew Answer  answer: a xplanation: None.	
Inswer: b  xplanation: None.  O. Domain name system provides: O host-name-to-network-address translations for the entire internet O network-address-to-host-name translations for the entire internet O binary to hex translations for the entire internet O all of the mentioned Giew Answer  Inswer: a  xplanation: None.  1. To recover from failures in the network operations,information may be maintained. O ip address	
nswer: b xplanation: None.  O. Domain name system provides: O host-name-to-network-address translations for the entire internet O network-address-to-host-name translations for the entire internet O binary to hex translations for the entire internet O all of the mentioned O iew Answer  Inswer: a xplanation: None.  1. To recover from failures in the network operations,information may be maintained. O ip address O state	
answer: b xplanation: None.  0. Domain name system provides: ) host-name-to-network-address translations for the entire internet ) network-address-to-host-name translations for the entire internet ) binary to hex translations for the entire internet ) all of the mentioned (liew Answer  answer: a xplanation: None.  1. To recover from failures in the network operations,information may be maintained. ) ip address ) state ) stateless	
xplanation: None.  0. Domain name system provides: 1 host-name-to-network-address translations for the entire internet 2 network-address-to-host-name translations for the entire internet 3 binary to hex translations for the entire internet 4 binary to hex translations for the entire internet 5 climary to hex translations for the entire internet 6 climary to hex translations for the entire internet 7 climary to hex translations for the entire internet 8 climary to hex translations for the entire internet 9 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 1 climary to hex translations for the entire internet 2 climary to hex translations for the entire internet 3 climary to hex translations for the entire internet 4 climary to hex translations for the entire internet 5 climary to hex translations for the entire internet 6 climary to hex translations for the entire internet 7 climary to hex translations for the entire internet 8 climary to hex translations for the entire internet 9 climary to hex translations for the entire internet 9 climary to hex translations for the entire internet 9 climary to hex translations for the entire internet 9 climary translations for the entire int	
Answer: b Explanation: None.  O. Domain name system provides: ) host-name-to-network-address translations for the entire internet ) network-address-to-host-name translations for the entire internet ) binary to hex translations for the entire internet ) all of the mentioned View Answer  Answer: a Explanation: None.  1. To recover from failures in the network operations,information may be maintained. ) ip address ) state ) stateless ) operating system	
Answer: b Explanation: None.  O. Domain name system provides: ) host-name-to-network-address translations for the entire internet o) network-address-to-host-name translations for the entire internet ) binary to hex translations for the entire internet ) all of the mentioned  View Answer:  Answer: a Explanation: None.  1. To recover from failures in the network operations,information may be maintained. ) ip address o) state ) stateless 0 operating system View Answer	
Answer: b Explanation: None.  O. Domain name system provides: O) host-name-to-network-address translations for the entire internet O) network-address-to-host-name translations for the entire internet O) binary to hex translations for the entire internet O) all of the mentioned View Answer Answer: a Explanation: None.	

- 12. The series of accesses between the open and close operations is a :
- a) transaction
- b) procedure
- c) program
- d) file session

Answer: d



# Operating System Questions & Answers - File System Interface Protection 1. Reliability of files can be increased by: a) keeping the files safely in the memory b) making a different partition for the files c) by keeping them in external storage d) by keeping duplicate copies of the file View Answer Answer: d Explanation: None. 2. Protection is only provided at the\_\_\_\_ a) lower b) central c) higher d) none of the mentioned View Answer Answer: a Explanation: None. 3. The main problem with access control lists is: a) their maintenance b) their length c) their permissions d) all of the mentioned View Answer Answer: b Explanation: None. 4. Many systems recognize three classifications of users in connection with each file (to condense the access control list): a) Owner b) Group c) Universe d) All of the mentioned View Answer Answer: d Explanation: None.

c) none of the mentioned View Answer

Answer: b

a) differentb) similarc) same

Explanation: None.

6. Universe consists of:

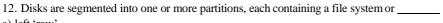
5. All users in a group get\_

a) all users that aren't included in the group or owners

\_access to a file.

b) all users that are not owners

c) all users in the system d) none of the mentioned View Answer
Answer: c Explanation: None.
7. In UNIX, groups can be created and modified by: a) superuser b) any user c) a programmer only d) the people in the group only View Answer  Answer: a  Explanation: Mono
Explanation: None.  8. To control access the three bits used in UNIX are represented by: a) r b) w c) x d) all of the mentioned View Answer
Answer: d Explanation: None.
9. If each access to a file is controlled by a password, then the disadvantage is that : a) user will need to remember a lot of passwords b) it is not reliable c) it is not efficient d) all of the mentioned View Answer Answer: a Explanation: None.
10. In a multi level directory structure : a) the same previous techniques will be used as in the other structures b) a mechanism for directory protection will have to applied c) the subdirectories do not need protection once the directory is protected d) none of the mentioned View Answer
Answer: b Explanation: None.
11. In UNIX, the directory protection is handledto the file protection.  a) different b) similar c) it is not handled at all d) none of the mentioned View Answer
Answer: b Explanation: None.



- a) left 'raw'
- b) made into swap space
- c) made into backup space
- d) left 'ripe'

View Answer

Answer: a

Explanation: None.



#### Operating System Questions & Answers – File System Implementation – Allocation Methods – 1

1. The three major methods of allocating disk space that are in wide use are :

a) contiguousb) linked

c) indexed
d) all of the mentioned
View Answer
Answer: d
Explanation: None.
2. In contiguous allocation:
a) each file must occupy a set of contiguous blocks on the disk
b) each file is a linked list of disk blocks
c) all the pointers to scattered blocks are placed together in one location d) none of the mentioned
View Answer
VICW Allswei
Answer: a
Explanation: None.
3. In linked allocation :
a) each file must occupy a set of contiguous blocks on the disk
b) each file is a linked list of disk blocks
c) all the pointers to scattered blocks are placed together in one location
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
4. In indexed allocation:
a) each file must occupy a set of contiguous blocks on the disk
b) each file is a linked list of disk blocks
c) all the pointers to scattered blocks are placed together in one location
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
5. On systems where there are multiple operating system, the decision to load a particular one is done by :
a) boot loader
b) bootstrap
c) process control block
d) file control block
View Answer
Answer: a
Explanation: None.
6. The VFS (virtual file system) activates file system specific operations to handle local requests according to their
a) size
b) commands

c) timings
d) file system types
View Answer
Answer: d
Explanation: None.
7. The real disadvantage of a linear list of directory entries is the :
a) size of the linear list in memory
b) linear search to find a file
c) it is not reliable
d) all of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation, 1 voic.
8. Contiguous allocation of a file is defined by:
a) disk address of the first block & length
b) length & size of the block
c) size of the block
d) total size of the file
View Answer
Tem Amorres
Answer: a
Explanation: None.
9. One difficulty of contiguous allocation is :
a) finding space for a new file
b) inefficient
c) costly
d) time taking
View Answer
Answer: a
Explanation: None.
Explanation. None.
10andare the most common strategies used to select a free hole from the set of available holes.
a) First fit, Best fit
b) Worst fit, First fit
c) Best fit, Worst fit
d) None of the mentioned
View Answer
Answer: a
Explanation: None.
11. The first fit and best fit algorithms suffer from:
a) internal fragmentation
b) external fragmentation
c) starvation
d) all of the mentioned
View Answer
Answer: b
Explanation: None.
<u>r</u>

12. To solve the problem of external fragmentation,needs to be done periodically.  a) compaction b) check c) formatting d) replacing memory View Answer
Answer: a Explanation: None.
13. If too little space is allocated to a file a) the file will not work b) there will not be any space for the data, as the FCB takes it all c) the file cannot be extended d) the file cannot be opened View Answer  Answer: c  Explanation: None.
<codewitharray's></codewitharray's>

# $Operating\ System\ Questions\ \&\ Answers-File\ System\ Implementation-Allocation\ Methods-2$

A device driver can be thought of as a translator. Its input consists of	commands and output consists of	instructions.
a) high level, low level		
b) low level, high level		
c) complex, simple d) low level, complex		
View Answer		
VIEW AllSWEI		
Answer: a		
Explanation: None.		
2. The file organization module knows about :		
a) files		
b) logical blocks of files		
c) physical blocks of files		
d) all of the mentioned		
View Answer		
Answer: d		
Explanation: None.		
3. Metadata includes :		
a) all of the file system structure		
b) contents of files		
c) both file system structure and contents of files		
d) none of the mentioned		
View Answer		
Answer: c		
Explanation: None.		
4. For each file there exists athat contains information about	the file, including ownership, permissions a	and location of the file
contents.	the file, including ownership, permissions a	and location of the me
a) metadata		
b) file control block		
c) process control block		
d) all of the mentioned		
View Answer		
Answer: b		
Explanation: None.		
5. For processes to request access to file contents, they need to :		
a) they need to run a seperate program		
b) they need special interrupts		
c) implement the open and close system calls		
d) none of the mentioned		
View Answer		
A		
Answer: c		
Explanation: None.		
6. During compaction time, other normal system operationsbe pe	ermitted.	
<u> </u>		

a) can

b) cannot
c) is d) none of the mentioned
View Answer
Answer: b
Explanation: None.
7. When in contiguous allocation the space cannot be extended easily:
a) the contents of the file have to be copied to a new space, a larger hole
b) the file gets destroyed
c) the file will get formatted and lost all its data
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
9. In the linked allocation, the directory contains a pointer to the
8. In the linked allocation, the directory contains a pointer to the :  I. first block
II. last block
a) I only
b) II only c) Both I and II
d) Neither I nor II
View Answer
TOWN THIS WELL
Answer: c
Explanation: None.
9. There is no with linked allocation.
a) internal fragmentation
b) external fragmentation
c) starvation d) all of the mentioned
View Answer
Answer: b
Explanation: None.
10. The major disadvantage with linked allocation is that:
a) internal fragmentation
b) external fragmentation
c) there is no sequential access
d) there is only sequential access
View Answer
Answer: d
Explanation: None.
11. If a pointer is lost or damaged in a linked allocation:
a) the entire file could get damaged
b) only a part of the file would be affected
c) there would not be any problems
d) none of the mentioned View Answer
VICW ANDWEL

Answer: a Explanation: None.		
12. FAT stands for : a) File Attribute Transport		
b) File Allocation Table		
c) Fork At Time		
d) None of the mentioned		
View Answer		
Answer: b		
Explanation: None.		
12 D : FAT 1		
13. By using FAT, random access time is a) the same		
b) increased		
c) decreased		
d) not affected		
View Answer		
Answer: c		
Explanation: None.		
	14/ITII	
<b>\<code< b=""></code<></b>		
- TOOPE	4411111	

# Operating System Questions & Answers – File System Implementation – Allocation Methods – 3

<ol> <li>A better way of contiguous allocation to extend the file size is:</li> <li>a) adding an extent (another chunk of contiguous space)</li> <li>b) adding an index table to the first contiguous block</li> <li>c) adding pointers into the first contiguous block</li> <li>d) none of the mentioned</li> <li>View Answer</li> </ol>
Answer: a Explanation: None.
2. If the extents are too large, then the problem that comes in is: a) internal fragmentation b) external fragmentation c) starvation d) all of the mentioned View Answer  Answer: a Explanation: None.  3. The FAT is used much as a a) stack b) linked list
c) data d) pointer View Answer  Answer: b Explanation: None.
4. A section of disk at the beginning of each partition is set aside to contain the table in : a) fat b) linked allocation c) hashed allocation d) indexed allocation View Answer  Answer: a Explanation: None.
5. Contiguous allocation has two problems and that linked allocation solves.  a) external – fragmentation & size – declaration b) internal – fragmentation & external – fragmentation c) size – declaration & internal – fragmentation d) memory – allocation & size – declaration View Answer  Answer: a Explanation: None.
6. Eachhas its own index block. a) partition b) address

c) file	
d) all of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
7. Indexed allocationdirect access.	
a) supports	
b) does not support c) is not related to	
d) none of the mentioned	
View Answer	
view Answer	
Answer: a	
Explanation: None.	
2	
8. The pointer overhead of indexed allocation is generally	the pointer overhead of linked allocation.
a) less than	uic pointer overhead of mined disordion.
b) equal to	
c) greater than	
d) keeps varying with	
View Answer	
Answer: c	
Explanation: None.	
9. For any type of access, contiguous allocation requires	_access to get a disk block.
a) only one	
b) at least two	
c) exactly two	
d) none of the mentioned	
View Answer	IIADDAVIOI.
Answer: a	
	nemory and calculate immediately the disk address of the ith block and read it
directly.	ioniory and calculate infinediately the disk address of the full block and read it
directly.	
10. Consider a disk where blocks 2 3 4 5 8 9 10 11 12 13 17 18	,25,26 and 27 are free and the rest of the blocks are allocated. Then the free
space bitmap would be:	,25,20 and 27 are free and the fest of the blocks are anocated. Then the free
a) 100001100000011100111111100011111	
b) 1100001100000011100111111100011111	
c) 011110011111110001100000011100000	
d) 0011110011111110001100000011100000	
View Answer	
Answer: d	
Explanation: None.	

# Operating System Questions & Answers – File System Implementation – Performance

1tend to represent a major bottleneck in system performance. a) CPUs b) Disks c) Programs d) I/O View Answer
Answer: b Explanation: None.
2. In UNIX, even an 'empty' disk has a percentage of its space lost to a) programs b) inodes c) virtual memory d) stacks View Answer  Answer: b  Explanation: None.
3. By preallocating the inodes and spreading them across the volume, wethe system performance.  a) improve b) decrease c) maintain d) do not affect View Answer
Answer: a Explanation: None.
4writes occur in the order in which the disk subsystem receives them, and the writes are not buffered. a) Asynchronous b) Regular c) Synchronous d) Irregular View Answer
Answer: c Explanation: None.
5. Inwrites, the data is stored in the cache.  a) Asynchronous b) Regular c) Synchronous d) Irregular View Answer
Answer: a Explanation: None.
6. A file being read or written sequentially should not have its pages replaced in LRU order, because a) it is very costly b) the most recently used page will be used last

c) it is not efficient d) all of the mentioned View Answer	
Answer: b	
Explanation: None.	
7. In the optimized technique for sequential access	removes a page from the buffer as soon as the next page is requested.
a) write ahead	
b) read ahead	
c) free-behind	
d) add-front	
View Answer	
Answer: c	
Explanation: None.	
8. Witha requested page and several subseque	ant pages are read and cached.
a) write ahead	
b) read ahead	
c) free-behind	
d) add-front	
View Answer	

Answer: b Explanation: None.



# Operating System Questions & Answers – File System Implementation – Recovery 1. Some directory information is kept in main memory or cache to \_\_\_ a) fill up the cache b) increase free space in secondary storage c) decrease free space in secondary storage d) speed up access View Answer Answer: d Explanation: None. 2. A systems program such as fsck in \_\_\_\_\_ is a consistency checker. a) UNIX b) Windows c) Macintosh d) Solaris View Answer Answer: a Explanation: None. 3. A consistency checker\_ and tries to fix any inconsistencies it finds. a) compares the data in the secondary storage with the data in the cache b) compares the data in the directory structure with the data blocks on disk c) compares the system generated output and user required output d) all of the mentioned View Answer Answer: b Explanation: None. 4. Each set of operations for performing a specific task is a a) program b) code c) transaction d) all of the mentioned View Answer Answer: c Explanation: None. 5. Once the changes are written to the log, they are considered to be \_\_\_\_ a) committed b) aborted

- 6. When an entire committed transaction is completed,
- a) it is stored in the memory

d) none of the mentioned

c) completed

View Answer

Answer: a Explanation: None.

b) it is removed from the log file

- c) it is redone
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 7. A circular buffer:
- a) writes to the end of its space and then continues at the beginning
- b) overwrites older values as it goes
- c) all of the mentioned
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

8. All the changes that were done from a transaction that did not commit before the system crashed, have to be \_

<CODEWITHARR

- a) saved
- b) saved and the transaction redone
- c) undone
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

# Operating System Questions & Answers – File System Implementation – Network File System – 1

A machine in Network file system (NFS) can be
a) client
b) server
c) both client and server
d) neither client nor server
View Answer
Answer: c
Explanation: None.
2. A directory is mounted over a directory of a file system.
a) local, remote
b) remote, local
c) local, local
c) none of the mentioned
View Answer
Answer: d
Explanation: None.
3. Thebecomes the name of the root of the newly mounted directory.
a) root of the previous directory
b) local directory
c) remote directory itself
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation. Profic.
4mounts, is when a file system can be mounted over another file system, that is remotely mounted, not local.
4mounts, is when a file system can be mounted over another file system, that is remotely mounted, not local.  a) recursive
b) cascading
c) trivial
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
5. The mount mechanism a transitive property.
a) exhibits
b) does not exhibit
c) may exhibit
d) none of the mentioned
View Answer
Answer: b
Explanation: Mounting a remote file system does not give the client access to other file systems that were, by chance, mounted over the former
file system.
6. A mount operation includes the :
a) name of the network

b) name of the remote directory to be mounted
c) name of the server machine storing it
d) all of the mentioned
View Answer
Answer: b
Explanation: None.
7. The mount request is mapped to the corresponding and is forwarded to the mount server running on the specific server machine. a) IPC
b) System
c) CPU
d) RPC
View Answer
VICW AHISWCI
Answer: b
Explanation: None.
8. The server maintains a/anthat specifies local file systems that it exports for mounting, along with names of machines that are
permitted to mount them.
a) export list
b) import list
c) sending list
d) receiving list
View Answer
Answer: a
Explanation: None.
9. In UNIX, the file handle consists of aand
a) file-system identifier & an inode number
b) an inode number & FAT
c) a FAT & an inode number
d) a file pointer & FAT
View Answer
- OOD E III III III III III O
Answer: a
Explanation: None.

# Operating System Questions & Answers – File System Implementation – Network File System – 2

1. The NFS servers :			
a) are stateless			
b) save the current state of the request			
c) maybe stateless			
d) none of the mentioned			
View Answer			
Answer: a			
Explanation: None.			
2 E NEG 11	11 . 4	. 1 1 . 1 . 1	
2. Every NFS request has a	_allowing the server to determine if a	a request is duplicated or if any	are missing.
a) name			
b) transaction			
<ul><li>c) sequence number</li><li>d) all of the mentioned</li></ul>			
View Answer			
View Allswei			
Answer: c			
Explanation: None.			
<u> </u>			
A server crash and recovery will	to a client.		
a) be visible	to a chem.		
b) affect			
c) be invisible			
d) harm			
View Answer			
Answer: c			
Explanation: All blocks that the server is	managing for the client will be intact	•	
-CODI			/// //
4. The server must write all NFS data _	<u>- w</u>		
a) synchronously	_ ~~ / / / / / / /		
b) asynchronously			
c) index-wise			
d) none of the mentioned			
View Answer			
Answer: a			
Explanation: None.			
2. p. m.			
5. A single NFS write procedure :			
a) can be atomic			
b) is atomic			
c) is non atomic			
d) none of the mentioned			
View Answer			
Answer: b			
Explanation: None.			
6. The NFS protocol,cor	ncurrency control mechanisms.		
a) provides			
b) does not provide			

c) may provide d) none of the mentioned View Answer
Answer: b Explanation: None.
7in NFS involves the parsing of a path name into separate directory entries – or components.
a) Path parse
b) Path name parse
c) Path name translation
d) Path name parsing
View Answer
Answer: c
Explanation: None.
8. For every pair of component and directory vnode after path name translation:
a) a single NFS lookup call is used sequentially
b) a single NFS lookup call is used beginning from the last component
c) at least two NFS lookup calls per component are performed
d) a separate NFS lookup call is performed
View Answer
Answer: d
Explanation: None.
Explanation, Ivone.
9. When a client has a cascading mount,server(s) is/are involved in a path name traversal.
a) at least one
b) more than one
c) more than two
d) more than three
View Answer
""" CONEWITUADDAY'C/
Answer: b
Explanation: None.

# Operating System Questions & Answers – I/O Subsystem

<ol> <li>I/O hardware contains</li> <li>Bus</li> <li>Controller</li> <li>I/O port and its registers</li> <li>All of the mentioned</li> <li>View Answer</li> </ol>
Answer: d Explanation: None.
2. The data-in register of I/O port is a) Read by host to get input b) Read by controller to get input c) Written by host to send output d) Written by host to start a command View Answer
Answer: a Explanation: None.
3. The host setsbit when a command is available for the controller to execute. a) write b) status c) command-ready d) control View Answer
Answer: c Explanation: None.
4. When hardware is accessed by reading and writing to the specific memory locations, then it is called a) port-mapped I/O b) controller-mapped I/O c) bus-mapped I/O d) none of the mentioned View Answer
Answer: d Explanation: It is called memory-mapped I/O.
5. Device drivers are implemented to interface a) character devices b) block devices c) network devices d) all of the mentioned View Answer
Answer: d Explanation: None.
6. Which hardware triggers some operation after certain programmed count? a) programmable interval timer b) interrupt timer

c) programmable timer d) none of the mentioned View Answer

Answer: a

Explanation: None.

- 7. The device-status table contains
- a) each I/O device type
- b) each I/O device address
- c) each I/O device state
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 8. Which buffer holds the output for a device?
- a) spool
- b) output
- c) status
- d) magic

View Answer

Answer: a

Explanation: None.

- 9. Which one of the following connects high-speed high-bandwidth device to memory subsystem and CPU.
- a) Expansion bus
- b) PCI bus
- c) SCSI bus
- d) None of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. A process is moved to wait queue when I/O request is made with
- a) non-blocking I/O
- b) blocking I/O
- c) asynchronous I/O
- d) synchronous I/O

View Answer

Answer: b

Explanation: None.

# Operating System Questions & Answers – Disk Scheduling – 1

1. Ininformation is recorded magnetically on platters. a) magnetic disks b) electrical disks c) assemblies d) cylinders View Answer
Answer: a Explanation: None.
2. The heads of the magnetic disk are attached to athat moves all the heads as a unit. a) spindle b) disk arm c) track d) none of the mentioned View Answer  Answer: b  Explanation: None.
3. The set of tracks that are at one arm position make up a a) magnetic disks b) electrical disks c) assemblies d) cylinders View Answer
Answer: d Explanation: None.
4. The time taken to move the disk arm to the desired cylinder is called the : a) positioning time b) random access time c) seek time d) rotational latency View Answer  Answer: c Explanation: None.
5. The time taken for the desired sector to rotate to the disk head is called: a) positioning time b) random access time c) seek time d) rotational latency View Answer  Answer: d  Explanation: None.
6. When the head damages the magnetic surface, it is known as a) disk crash b) head crash

c) magnetic damage	
d) all of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
·	
7. A floppy disk is designed to rotateas compared to a hard disk drive.	
a) faster	
b) slower	
c) at the same speed	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
8. The host controller is:	
a) controller built at the end of each disk	
b) controller at the computer end of the bus	
c) all of the mentioned	
d) none of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
	J I
9controller sends the command placed into it, via messages to thecontroller.	r
a) host, host	
b) disk, disk	
c) host, disk	
d) disk, host	
View Answer	
Answer: c	
Answer: c	
Explanation: None.	
10. The disk bandwidth is:	
a) the total number of bytes transferred	
b) total time between the first request for service and the completion on the last transfer	
c) the total number of bytes transferred divided by the total time between the first request for service and the c	completion on the last transfer
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	

#### Operating System Questions & Answers – Disk Scheduling – 2

1. Whenever a process needs I/O to or from a disk it issues a a) system call to the CPU b) system call to the operating system c) a special procedure d) all of the mentioned View Answer
Answer: b Explanation: None.
2. If a process needs I/O to or from a disk, and if the drive or controller is busy then: a) the request will be placed in the queue of pending requests for that drive b) the request will not be processed and will be ignored completely c) the request will be not be placed d) none of the mentioned View Answer:
Explanation: None.
3. Consider a disk queue with requests for I/O to blocks on cylinders: 98 183 37 122 14 124 65 67  Considering FCFS (first cum first served) scheduling, the total number of head movements is, if the disk head is initially at 53: a) 600 b) 620 c) 630 d) 640  View Answer
Answer: d Explanation: None.
4. Consider a disk queue with requests for I/O to blocks on cylinders: 98 183 37 122 14 124 65 67
Considering SSTF (shortest seek time first) scheduling, the total number of head movements is, if the disk head is initially at 53:
a) 224 b) 236 c) 245 d) 240 View Answer
Answer: b Explanation: None.
5. Random access in magnetic tapes iscompared to magnetic disks. a) fast b) very fast c) slow d) very slow View Answer
Answer: d Explanation: None.

6. Magnetic tape drives can write data at a speeddisk drives.
a) much lesser than
b) comparable to
c) much faster than
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
7. On media that use constant linear velocity (CLV), the is uniform.
a) density of bits on the disk
b) density of bits per sector
c) the density of bits per track
d) none of the mentioned
View Answer
Answer: c
Explanation: The farther a track is from the center of the disk.
8. SSTF algorithm, like SJFof some requests.
a) may cause starvation
b) will cause starvation
c) does not cause starvation
d) causes aging
View Answer
Answer: a
Explanation: None.
Explanation, Polic.
9. In thealgorithm, the disk arm starts at one end of the disk and moves toward the other end, servicing requests till the other end of
the disk. At the other end, the direction is reversed and servicing continues.
a) LOOK
b) SCAN
c) C-SCAN
d) C-LOOK
View Answer
View Alliswei
Answer: b
Explanation: None.
10. In thealgorithm, the disk head moves from one end to the other, servicing requests along the way. When the head reaches the
other end, it immediately returns to the beginning of the disk without servicing any requests on the return trip.
a) LOOK
b) SCAN
b) SCAN c) C-SCAN
b) SCAN c) C-SCAN d) C-LOOK
b) SCAN c) C-SCAN
b) SCAN c) C-SCAN d) C-LOOK
b) SCAN c) C-SCAN d) C-LOOK View Answer
b) SCAN c) C-SCAN d) C-LOOK View Answer  Answer: c Explanation: None.
b) SCAN c) C-SCAN d) C-LOOK View Answer  Answer: c Explanation: None.  11. In thealgorithm, the disk arm goes as far as the final request in each direction, then reverses direction immediately without going to
b) SCAN c) C-SCAN d) C-LOOK View Answer  Answer: c Explanation: None.  11. In the algorithm, the disk arm goes as far as the final request in each direction, then reverses direction immediately without going to the end of the disk.
b) SCAN c) C-SCAN d) C-LOOK View Answer  Answer: c Explanation: None.  11. In thealgorithm, the disk arm goes as far as the final request in each direction, then reverses direction immediately without going to the end of the disk. a) LOOK
b) SCAN c) C-SCAN d) C-LOOK View Answer  Answer: c Explanation: None.  11. In the algorithm, the disk arm goes as far as the final request in each direction, then reverses direction immediately without going to the end of the disk.

d) C-LOOK View Answer

Answer: a Explanation: None.



#### **Operating System Questions & Answers – Disk Management**

<ol> <li>The process of dividing a disk into sectors that the disk controller can read and write, before a disk can store data is known as:</li> <li>a) partitioning</li> <li>b) swap space creation</li> <li>c) low-level formatting</li> <li>d) none of the mentioned</li> <li>View Answer</li> </ol>
Answer: c Explanation: None.
2. The data structure for a sector typically contains: a) header b) data area c) trailer d) all of the mentioned View Answer  Answer: d  Explanation: None.
3. The header and trailer of a sector contain information used by the disk controller such as and a) main section & disk identifier b) error correcting codes (ECC) & sector number c) sector number & main section d) disk identifier & sector number View Answer
Answer: b Explanation: None.
4. The two steps the operating system takes to use a disk to hold its files areanda) partitioning & logical formatting b) swap space creation & caching c) caching & logical formatting d) logical formatting & swap space creation View Answer Answer: a
Explanation: None.
5. Theprogram initializes all aspects of the system, from CPU registers to device controllers and the contents of main memory, and then starts the operating system.  a) main
b) bootloader c) bootstrap d) rom View Answer
Answer: c Explanation: None.
6. For most computers, the bootstrap is stored in

b) ROM	
c) Cache	
d) Tertiary storage View Answer	
View Allswei	
Answer: b	
Explanation: None.	
7. A disk that has a boot partition is called a	
a) start disk	
b) end disk	
c) boot disk	
d) all of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
8. Defective sectors on disks are often known as	
a) good blocks	
b) destroyed blocks	
c) bad blocks	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
O. In SCSI dieles used in high and DCs, the controller maintains a list of	
9. In SCSI disks used in high end PCs, the controller maintains a list ofon the disk. The disk is initialized during formatting which sets aside spare sectors not visible to the operating system.	
a) destroyed blocks, high level formatting	
b) bad blocks, partitioning	
c) bad blocks, low level formatting	
d) destroyed blocks, partitioning	
View Answer	
1 TOODE WITHINKING	
Answer: c	
Explanation: None.	
10. The scheme used in the above question is known as or	
a) sector sparing & forwarding	
<ul><li>a) sector sparing &amp; forwarding</li><li>b) forwarding &amp; sector utilization</li></ul>	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer  Answer: a  Explanation: None.  11. An unrecoverable error is known as a) hard error	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer  Answer: a Explanation: None.  11. An unrecoverable error is known as a) hard error b) tough error	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer  Answer: a Explanation: None.  11. An unrecoverable error is known as a) hard error b) tough error c) soft error	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer  Answer: a  Explanation: None.  11. An unrecoverable error is known as a) hard error b) tough error c) soft error d) none of the mentioned	
a) sector sparing & forwarding b) forwarding & sector utilization c) backwarding & forwarding d) sector utilization & backwarding View Answer  Answer: a Explanation: None.  11. An unrecoverable error is known as a) hard error b) tough error c) soft error	

Answer: a

Explanation: None.



# **Operating System Questions & Answers – Swap Space Management**

1. Virtual memory uses disk space as an extension of
a) secondary storage
b) main memory
c) tertiary storage
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation. Polic.
2. Using swap space significantly system performance.
a) increases
b) decreases
c) maintains
d) does not affect
View Answer
TICW THIS WOL
Answer: b
Explanation: Disk access is much slower than memory access.
3. Linuxthe use of multiple swap spaces.
a) allows
b) does not allow
c) may allow
d) none of the mentioned
View Answer
THIS WELL
Answer: a
Explanation: Putting these swap spaces on separate disks reduces the load places on the I/O system.
- CODEWITH BRANCH
4. A single swap spacereside in two places.
a) can
b) cannot
c) must not
d) none of the mentioned
View Answer
A
Answer: a Explanation: None.
Explanation: None.
5. If the swap space is simply a large file, within the file system, used to create it, name it and allocate its space.
a) special routines must be
b) normal file system routines can be
c) normal file system routines cannot be
d) swap space storage manager is
View Answer
Answer: b
Explanation: None.
6. For swap space created in a separate disk partition where no file system or directory structure is placed,used to allocate
and deallocate the blocks.
a) special routines must be

b) normal file system routines can be	
c) normal file system routines cannot be	
d) swap space storage manager is	
View Answer	
Answer: d	
Explanation: None.	
7. When a fixed amount of swap space is created during disk partitioning, more swap space can be added only by:	
I) repartitioning of the disk	
II) adding another swap space elsewhere	
a) only I	
b) only II	
c) both I and II	
d) neither I nor II	
View Answer	
Answer: c	
Explanation: None.	
8. In UNIX, two per processare used by the kernel to track swap space use.	
a) process tables	
b) swap maps	
c) memory maps	
d) partition maps	
View Answer	
Answer: b	
Explanation: None.	
9. It isto reread a page from the file system than to write it to swap space and then to reread it from there.	
a) useless	
b) less efficient	
c) more efficient	
c) more efficient d) none of the mentioned	
View Answer	
VIEW Alliswei	
Answer: c	
Explanation: None.	

#### Operating System Questions & Answers – RAID Structure – 1 1. RAID level 3 supports a lower number of I/Os per second, because a) Every disk has to participate in every I/O request b) Only one disk participates per I/O request c) I/O cycle consumes a lot of CPU time d) All of the mentioned View Answer Answer: a Explanation: None. 2. RAID level is also known as block interleaved parity organisation and uses block level striping and keeps a parity block on a separate disk. a) 1 b) 2 c) 3 d) 4 View Answer Answer: d Explanation: None. 3. A performance problem with \_is the expense of computing and writing parity. a) non-parity based RAID levels b) parity based RAID levels c) all RAID levels

Answer: b

View Answer

Explanation: None.

- 4. In RAID level 4, one block read, accesses
- a) only one disk
- b) all disks simultaneously

d) none of the mentioned

- c) all disks sequentially
- d) none of the mentioned

View Answer

Answer: a

Explanation: Other requests are allowed to be processed by other disks.

- 5. The overall I/O rate in RAID level 4 is:
- a) low
- b) very low
- c) high
- d) none of the mentioned

View Answer

Answer: c

Explanation: All disks can be read in parallel.

- 6. A write of a block has to access:
- a) the disk on which the block is stored

b) parity disk c) a parity block d) all of the mentioned View Answer
Answer: d Explanation: None.
7. RAID level 5 is also known as : a) bit-interleaved parity organization b) block-interleaved parity organization c) block-interleaved distributed parity d) memory-style ECC organization View Answer  Answer: c Explanation: None.
8. RAID levelspreads parity and data among all N+1 disks rather than storing data in N disks and parity in 1. a) 3 b) 4 c) 5 d) 6 View Answer
Answer: c Explanation: None.
9. The potential overuse of a single parity disk is avoided in RAID level a) 3 b) 4 c) 5 d) all of the mentioned View Answer Answer: c Explanation: None.
10. RAID level 0+1 is used because, RAID level 0 provides whereas RAID level 1 provides a) performance, redundancy b) performance, reliability c) redundancy, performance d) none of the mentioned View Answer
Answer: b Explanation: None.
11. If a disk fails in RAID levelrebuilding lost data is easiest. a) 1 b) 2 c) 3 d) 4 View Answer
Answer: a Explanation: Data can be copied from another disk in raid level 1, for other raid levels all other disks have to be accessed.



#### **Operating System Questions & Answers – RAID Structure – 2**

a) if the disks are operated on sequentiallyb) if the disks are operated on selectivelyc) if the disks are operated in parallel

d) all of the mentioned

1. A large number of disks in a system improves the rate at which data can be read or written:

VIEW AllSWEI	
Answer: c	
Explanation: None.	
2. RAID stands for :	
a) Redundant Allocation of Inexpensive Disks	
b) Redundant Array of Important Disks	
c) Redundant Allocation of Independent Disks	
d) Redundant Array of Independent Disks	
View Answer	
Answer: d	
Explanation: None.	
3. If the mean time to failure of a single disk is 100,000 hours, then th	a mean time to failure of some disk in an array of 100 disks will be
a) 100 hours	e mean time to faiture of some disk in an array of 100 disks will be.
b) 10 days	
c) 10 hours	
d) 1000 hours	
View Answer	
Answer: d	
Explanation: None.	
	<del></del>
4. The solution to the problem of reliability is the introduction of	
a) aging	<del>10</del> 8841 3/2
b) scheduling	
c) redundancy	
d) disks	
View Answer	
VICW MISWEI	
Answer: c	
Explanation: None.	
5. The technique of duplicating every disk is known as :	
a) mirroring	
b) shadowing	
c) redundancy	
d) all of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
Zapanaca. Pone.	
6. The mean time to failure of a mirrored disk depends on :	
I) the mean time to failure of individual disks	
II) the mean time to repair	
, r., r.,	

a) Only I
b) Only II
c) Both I and II
d) Neither I nor II
View Answer
VIEW AllSWEI
Answer: c
Explanation: None.
7. RAID levelrefers to disk arrays with striping at the level of blocks, but without any redundancy.
a) 0
b) 1
c) 2
d) 3
View Answer
Answer: a
Explanation: None.
8. RAID levelrefers to disk mirroring.
a) 0
b) 1
c) 2
d) 3
View Answer
Au
Answer: b
Explanation: None.
O. DAID lovel
9. RAID levelis also known as bit interleaved parity organisation.
a) 0
b) 1
CODEWITH ADDA W/C /
d) 3 View Answer
View Answer
Answer: d
Explanation: None.
10. A single parity bit can be used for :
a) detection
b) multiple error corrections
c) few error corrections
d) all of the mentioned
View Answer
View Allswer
Answer: a
Explanation: None.
11. RAID levelis also known as memory style error correcting code(ECC) organization.
a) 1
b) 2
c) 3
d) 4
View Answer
Answer: b

12. RAID level 3 does not have \_\_\_\_\_as in RAID level 1.

- a) efficiency
- b) enough storage space for data
- c) storage overhead
- d) time consumption overhead

View Answer

Answer: c

Explanation: There is one mirror disk for every disk in level 1.



## Operating System Questions & Answers – Tertiary Storage

1. Tertiary storage is built with:  a) a lot of money b) unremovable media c) removable media d) secondary storage View Answer
Answer: c Explanation: None.
2. Floppy disks are examples of: a) primary storage b) secondary storage c) tertiary storage d) none of the mentioned View Answer  Answer: c  Explanation: None.
3. A magneto-optic disk is: a) primary storage b) secondary storage c) removable disk d) none of the mentioned View Answer
Answer: c Explanation: None.
4. The magneto-optic head fliesthe disk surface than a magnetic disk head does.  a) much farther from b) much closer to c) at the same distance as d) none of the mentioned View Answer  Answer: a Explanation: None.
5. Optical disksmagnetism. a) use b) do not use c) may use d) none of the mentioned View Answer  Answer: b
Explanation: None.  6. The phase change disk is coated with a material that can freeze into eitherorstate.
a) crystalline, solid b) ice amorphous

c) crystalline, liquid d) crystalline, amorphous View Answer
Answer: d Explanation: None.
7. WORM stands for :
a) write only, read mandatory
b) write once, read many times
c) write only once, read multiple
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
8. A tape holdsdata than optical or magnetic disk cartridge.
8. A tape holdsdata than optical or magnetic disk cartridge. a) lesser
b) more
c) much lesser
d) none of the mentioned
View Answer
VICW THIS WOL
Answer: b
Explanation: None.
9. Random access to tape is a disk seek. a) much slower than b) much faster than c) comparable to d) none of the mentioned View Answer Answer: a Explanation: None.
10. A typical tape drive isa typical disk drive.
a) more expensive than
b) cheaper than
c) of the same cost as
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
11. The surface area of a tape is the surface area of a disk.
a) much lesser than
b) much larger than
c) equal to d) none of the mentioned
View Answer
YICW ALLOWER
Answer: b
Explanation: None.

### Operating System Questions & Answers - Protection - Access Matrix

- 1. In domain structure what is Access-right equal to? a) Access-right = object-name, rights-set b) Access-right = read-name, write-set c) Access-right = read-name, execute-set d) Access-right = object-name, execute-set View Answer Answer: a Explanation: None. 2. What is meaning of right-set? a) It is a subset consist of read and write b) It is a subset of all valid operations that can be performed on the object c) It is a subset consist of read, write and execute d) None of the mentioned View Answer Answer: b Explanation: None. 3. What is Domain? a) Domain = Set of all objects b) It is a collection of protection policies c) Domain= set of access-rights d) None of the mentioned View Answer Answer: c Explanation: None. 4. What does access matrix represent? a) Rows-Domains, Columns-Objects b) Rows-Objects, Columns-Domains c) Rows-Access List, Columns-Domains d) Rows-Domains, Columns-Access list View Answer Answer: a Explanation: None. 5. What are the three additional operations to change the contents of the access-matrix? a) copy b) Owner c) control d) all of the mentioned View Answer
  - 6. Who can add new rights and remove some rights?
  - a) copy
  - b) transfer

Answer: d Explanation: None.

c) limited copy	
d) owner	
View Answer	
Answer: d	
Explanation: None.	
7. What are the three convictor 2	
7. What are the three copyrights? a) copy	
b) transfer	
c) limited copy	
d) all of the mentioned	
View Answer	
Answer: d	
Explanation: None.	
8. Which two rights allow a process to change the entries in a column?	
a) copy and transfer	
b) copy and owner	
c) owner and transfer	
d) deny and copy	
View Answer	
Answer: a	
Explanation: None.	
b) Brute force c) Access denied d) Confinement View Answer Answer: d Explanation: None.	
10. Which of the following objects require protection?	4
a) CPU	
b) Printers	
c) Motherboard	
d) All of the mentioned	
View Answer	
Answer: b	
Explanation: None.	
11. What is 'separation' in security of Operating systems?	
a) To have separate login for different users	
b) To have separate Hard disk drive/partition for different users	
c) It means keeping one user's objects separate from other users	
d) None of the mentioned	
View Answer	
Answer: c	
Explanation: None.	

12. Which of the following statements are correct?
i) Physical separation – in which process use different physical objects like separate printers
ii) Physical separation – in which process having different security requirement at different times
ii) Logical separation – In which users operate under illusion that no other processes exist
iv) Logical separation – In which processes conceal their data and computations
a) i
b) i and iii
c) ii and iii
d) iii and iv
View Answer
Answer: b
Explanation: None.
13. Which of the following statements are correct?
i) Physical separation – in which process use different physical objects like separate printers
ii) Temporal separation – in which process having different security requirement at different times
iii) Physical separation – In which users operate under illusion that no other processes exist
iv) Temporal separation – In which processes conceal their data and computations
a) i
b) i and ii
c) ii and iii
d) iii and iv
View Answer
Answer: b
Explanation: None.
View Answer
Answer: d
Explanation: None.
15. What are various roles of protection?
a) It is used to detect errors which can prevent contamination of system
b) It is used used to accelerate a process
c) It is used to optimize system downtime
A New of the marking of

d) None of the mentioned

View Answer

Answer: a

Explanation: None.

- 16. Which of the following objects require protection?
- a) Memory
- b) Monitor
- c) Power supply unitd) All of the mentioned

View Answer

Answer: a

## **Operating System Questions & Answers – Protection Concepts**

b) a list of domains

1. Which principle states that programs, users and even the systems be given just enough privileges to perform their task?
a) principle of operating system
b) principle of least privilege
c) principle of process scheduling
d) none of the mentioned
View Answer
VIEW AllSWEI
Answer: b
Explanation: None.
Explanation, Polic.
2is an approach to restricting system access to authorized users.
a) Role-based access control
b) Process-based access control
c) Job-based access control
d) None of the mentioned
View Answer
Answer: a
Explanation: None.
3. For system protection, a process should access
a) all the resources
b) only those resources for which it has authorization
c) few resources but authorization is not required
d) all of the mentioned
View Answer
Answer: b
Explanation: None.
Explanation, fronc.
aconculities on a vic /_ /
4. The protection domain of a process contains
a) object name
b) rights-set
c) both object name and rights-set
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
5. If the set of resources available to the process is fixed throughout the process's lifetime then its domain is
a) static
b) dynamic
c) neither static nor dynamic
d) none of the mentioned
View Answer
YIUW AIISWUI
Answer: a
Explanation: None.
Explanation, Note.
6. Access matrix model for user authentication contains
a) a list of objects

c) a function which returns an object's type	
d) all of the mentioned	
View Answer	
A 1	
Answer: d	
Explanation: None.	
7. Global table implementation of matrix table contains	
a) domain	
b) object	
c) right-set	
d) all of the mentioned	
View Answer	
VICW Allswei	
Answer: d	
Explanation: None.	
8. For a domainis a list of objects together with the operation allowed on	these objects
a) capability list	areae objects.
b) access list	
c) both capability and access list	
d) none of the mentioned	
View Answer	
VIOTINISTICI	
Answer: a	
Explanation: None.	
9. Which one of the following is capability based protection system?	
a) hydra	
b) cambridge CAP system	
c) both hydra and cambridge CAP system	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
10. In UNIX, domain switch is accomplished via	
a) file system	
b) user	
c) superuser	
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	

## **Operating System Questions & Answers – Security**

	ke a machine or network resource u	navailable to its intended users, the	he attack is called	
a) denial-of-service attack				
b) slow read attack				
c) spoofed attack				
d) starvation attack				
View Answer				
Answer: a				
Explanation: None.				
2. The code segment that mis	suses its environment is called a			
a) internal thief				
b) trojan horse				
c) code stacker				
d) none of the mentioned				
View Answer				
view Aliswer				
Answer: b				
Explanation: None.				
Explanation, None.				
The internal code of any so	oftware that will set of a malicious f	inction when specified conditions	s are met, is called	
a) logic bomb	revide that will set of a manerous i	anction when specified continuous	are med, is carred	
b) trap door				
c) code stacker				
d) none of the mentioned				
View Answer				
Answer: a				
Explanation: None.				
Explanation: I tone.				
4. The pattern that can be use	ed to identify a virus is known as			
a) stealth				
b) virus signature				
c) armoured				
d) multipartite				
View Answer				
VIEW THIS WEI				
Answer: b				
Explanation: None.				
5. Which one of the following	g is a process that uses the spawn r	nechanism to revage the system p	erformance?	
a) worm				
b) trojan				
c) threat				
d) virus				
View Answer				
Angryon o				
Answer: a				
Explanation: None.				
6. What is a trap door in a pr	rogram?			
	programming time in the system for	or later use		
b) a type of antivirus	rg-samming anne in the system to			
c, a t, pe or and thus				

- c) security hole in a network
- d) none of the mentioned

Answer: a

Explanation: None.

- 7. Which one of the following is not an attack, but a search for vulnerabilities to attack?
- a) denial of service
- b) port scanning
- c) memory access violation
- d) dumpster diving

View Answer

Answer: b

Explanation: None.

- 8. File virus attaches itself to the
- a) source file
- b) object file
- c) executable file
- d) all of the mentioned

View Answer

Answer: c

Explanation: None.

- 9. Multipartite viruses attack on
- a) files
- b) boot sector
- c) memory
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 10. In asymmetric encryption
- a) same key is used for encryption and decryption
- b) different keys are used encryption and decryption
- c) no key is required for encryption and decryption
- d) none of the mentioned

View Answer

Answer: b

### Operating System Questions & Answers - Protection - Memory Protection

- 1. What is true regarding 'Fence'?
- a) Its a method to confine users to one side of a boundary
- b) It can protect Operating system from one user
- c) It cannot protect users from each other
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 2. What is not true regarding 'Fence'?
- a) It is implemented via hardware register
- b) It doesn't protect users from each other
- c) It good to protect OS from abusive users
- d) Its implementation is unrestricted and can take any amount of space in Operating system.

View Answer

Answer: d

Explanation: None.

- 3. What is correct regarding 'relocation' w.r.t protecting memory?
- a) It is a process of taking a program as if it began at address 0
- b) It is a process of taking a program as if it began at address 0A
- c) Fence cannot be used within relocation process
- d) All of the mentioned

View Answer

Answer: a

Explanation: None.

- 4. How can fence and relocation be used together?
- a) To each program address, the contents of fence register are added
- b) To contents of fence register is subtracted from actual address of program
- c) To each program address, the contents of fence register are not added  $\,$
- d) None of the mentioned

View Answer

Answer: a

Explanation: This both relocates the address and guarantees that no one can access a location lower than a fence address.

- 5. What is basic need in protecting memory in multi-user environment?
- a) We need two registers one 'start' and other 'end'
- b) We need a variable register
- c) A fence register has to be used known as base register.
- d) None of the mentioned

View Answer

Answer: c

- 6. What is role of base/bound registers?
- a) They give starting address to a program
- b) Program's addresses are neatly confined to space between the base and the bound registers

- c) They provide encrypted environment
- d) This technique doesn't protects a program's address from modification by another user

Answer: b

Explanation: None.

- 7. What is all-or-nothing situation for sharing in memory?
- a) Program makes all its data available to be accessed
- b) It prohibits access to some
- c) It creates rules who can access program memory
- d) It separates program memory and data memory

View Answer

Answer: a

Explanation: None.

- 8. How is disadvantage of all-or-nothing approach overcome?
- a) Base/Bound
- b) Relocation technique
- c) Fence method
- d) Tagged architecture

View Answer

Answer: d

Explanation: None.

- 9. What is true regarding tagged architecture?
- a) Every word of machine memory has one or more extra bits
- b) Extra bits are used to do padding
- c) Extra bits are not used to identify rights to that word
- d) It is very compatible to code upgrades

View Answer

Answer: a

Explanation: None.

- 10. What is best solution to have effect of unbounded number if base/bound registers?
- a) Tagged architecture
- b) Segmentation
- c) Fence method
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

- 11. What is major feature of segmentation?
- a) Program is divided in data memory and program memory
- b) Program is executed in segments
- c) Program is divided into pieces having different access rights
- d) It has effect of an unbounded architecture

View Answer

Answer: c

- 12. What is correct way the segmentation program address is stored?
- a) name, offset
- b) start, stop
- c) access, rights
- d) offset, rights

Answer: a

Explanation: OS can retrieve the real address via looking for the table then making a simple calculation: address of the name + offset.

- 13. What is main objective of protection?
- a) Ensure all objects are protected individually
- b) Objects have different priority and thus different levels of protection
- c) Ensure that each object is accessed correctly and only by allowed processes
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 14. What is principle of least privilege?
- a) Less privileges provide difficulty in executing admin tasks
- b) Users can get temporary high privilege access
- c) Users should be given just enough privileges to perform their tasks
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 15. What is need of protection?
- a) Prevent mischievous violation
- b) Prevent and intentional
- c) Ensure that each program component uses resources allotted to it only
- d) All of the mentioned

View Answer

Answer: d

### Operating System Questions & Answers - Protection - Revocation of Access Rights

- 1. What is incorrect methods of revocation of access rights?
- a) Immediate/Delayed
- b) Selective/General
- c) Partial/total
- d) Crucial

View Answer

Answer: d

Explanation: None.

- 2. Why is it difficult to revoke capabilities?
- a) They are too many
- b) They are not defined precicely
- c) They are distributed throughout the system
- d) None of the mentioned

View Answer

Answer: c

Explanation: None.

- 3. What is the reacquisition scheme to revoke capability?
- a) When a process capability is revoked then it won't be able to reacquire it
- b) Pointers are maintained for each object which can be used to revoke
- c) Indirect pointing is done to revoke object's capabilities
- d) Master key can be used compare and revoke.

View Answer

Answer: a

Explanation: None.

- 4. What is false regarding Back-Pointers scheme to revoke capability?
- a) List of pointers is maintained with each object
- b) When revocation is required these pointers are followed
- c) This scheme is not adopted in MULTICS system
- d) These point to all capabilities associated with that object

View Answer

Answer: c

Explanation: None.

- 5. What is true about Indirection to revoke capability?
- a) Capabilities point indirectly to the objects
- b) Each capability will not have a unique entry in global
- c) Table entries cannot be reused for other capabilities
- d) This system was adopted in MULTICS system

View Answer

Answer: a

- 6. How can Keys be defined or replaced?
- a) create [keyname] [bits].
- b) set-key

- c) Key
- d) MAKE [Key Name].

Answer: b

Explanation: None.

- 7. What are characteristics of Hydra system?
- a) It consist of known access rights and interpreted by the system
- b) A user can of protection system can declare other rights
- c) Hydra system is not flexible
- d) Hydra doesn't provide rights amplification

View Answer

Answer: a

Explanation: None.

- 8. What are characteristics of rights amplification in Hydra?
- a) This scheme allows a procedure to be certified as trustworthy
- b) Amplification of rights cannot be stated explicitly in declaration
- c) It includes kernel rights such as read
- d) All of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. What is the problem of mutually suspicious subsystem?
- a) Service program can steal users data
- b) Service program can malfunction and retain some rights of data provided by user
- c) Calling program can get access to restricted portion from service program
- d) Calling program gets unrestricted access

View Answer

Answer: b

Explanation: Both calling program and service program are vulnerable to access each others private data/rights.

- 10. What are characteristics of Cambridge CAP system as compared to Hydra system?
- a) It is simpler and less powerful than hydra system
- b) It is more powerful than hydra system
- c) It is powerful than hydra system
- d) It is not as secure as Hydra system

View Answer

Answer: a

Explanation: None.

- 11. What are two capabilities defined in CAP system?
- a) data & software capability
- b) address & data capability
- c) hardware & software capability
- d) software capability

View Answer

Answer: a

## **Operating System Questions & Answers – Distributed Operating System**

1. In distributed system each processor has its own

a) host ID

b) host name and identifier

a) local memory	
b) clock	
c) both local memory and clock	
d) none of the mentioned	
View Answer	
Answer: c	
Explanation: None.	
2. If one site fails in distributed system	
a) the remaining sites can continue operating	
b) all the sites will stop working	
c) directly connected sites will stop working	
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
3. Network operating system runs on	
a) server	
b) every system in the network	
c) both server and every system in the networ	;k
d) none of the mentioned	
View Answer	
Answer: a	
Explanation: None.	
CODE	WITH A BRAWA /. I
4. Which technique is based on compile-time	program transformation for accessing remote data in a distributed-memory parallel system.
a) cache coherence scheme	
b) computation migration	
c) remote procedure call	
d) message passing	
a) message passing	
View Answer	
View Answer Answer: b	
View Answer	
View Answer  Answer: b  Explanation: None.	
View Answer  Answer: b  Explanation: None.  5. Logical extension of computation migration	is
View Answer  Answer: b  Explanation: None.  5. Logical extension of computation migration a) process migration	is
View Answer  Answer: b Explanation: None.  5. Logical extension of computation migration a) process migration b) system migration	ris
View Answer  Answer: b Explanation: None.  5. Logical extension of computation migration a) process migration b) system migration c) thread migration	ris
View Answer  Answer: b Explanation: None.  5. Logical extension of computation migration a) process migration b) system migration c) thread migration d) data migration	ris
View Answer  Answer: b Explanation: None.  5. Logical extension of computation migration a) process migration b) system migration c) thread migration d) data migration	nis
View Answer  Answer: b Explanation: None.  5. Logical extension of computation migration a) process migration b) system migration c) thread migration d) data migration View Answer	tis
View Answer  Answer: b Explanation: None.  5. Logical extension of computation migration a) process migration b) system migration	ıis

c) identifier
d) process ID
View Answer
Answer: b
Explanation: None.
7. Which routing technique is used in distributed system?
a) fixed routing
b) virtual routing
c) dynamic routing
d) all of the mentioned
View Answer
A 1
Answer: d
Explanation: None.
8. In distributed systems, link and site failure is detected by
a) polling
b) handshaking
c) token passing
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
Enplantation 1 tone.
9. The capability of a system to adapt the increased service load is called
a) scalability
b) tolerance
c) capacity
d) none of the mentioned
View Answer
CONCUITUADO A V-C /
Answer: a
Explanation: None.
10. Internet providesfor remote login.
a) telnet
b) http
c) ftp
d) RPC
View Answer
Answer: a
Explanation: None.

### Operating System Questions & Answers – Distributed Operating System – Types & Resource Sharing

<ol> <li>What is not true about distributed system</li> </ol>	distributed system	distribu	about	ot true	is	What	1.
---	--------------------	----------	-------	---------	----	------	----

- a) It is a collection of processor
- b) All processors are synchronized
- c) They do not share memory
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

2. What are characteristics of processor in distributed system?

- a) They vary in size and function
- b) They are same in size and function
- c) They are manufactured with single purpose
- d) They are real-time devices

View Answer

Answer: a

Explanation: None.

- 3. What are characteristics of distributed file system?
- a) Its users, servers and storage devices are dispersed
- b) Service activity is not carried out across the network
- c) They have single centralized data repository
- d) There are multiple dependent storage devices

View Answer

Answer: a

Explanation: None.

- 4. What is not a major reason for building distributed systems?
- a) Resource sharing
- b) Computation speedup
- c) Reliability
- d) Simplicity

View Answer

Answer: d

Explanation: None.

- $\label{eq:continuous} 5. \ What are types of distributed operating system ?$
- a) Network Operating system
- b) Zone based Operating system
- c) Level based Operating system
- d) All of the mentioned

View Answer

Answer: a

- 6. What are characteristic of Network Operating Systems?
- a) Users are aware of multiplicity of machines
- b) They are transparent

- c) They are simple to use
- d) All of the mentioned

Answer: a

Explanation: None.

- 7. How are access to resources of various machines is done?
- a) Remote logging using ssh or telnet
- b) Zone are configured for automatic access
- c) FTP is not used
- d) All of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. What are characteristics of Distributed Operating system?
- a) Users are aware of multiplicity of machines
- b) Access is done like local resources
- c) Users are aware of multiplicity of machines
- d) They have multiple zones to access files

View Answer

Answer: b

Explanation: None.

- 9. What are characteristics of data migration?
- a) transfer data by entire file or immediate portion required
- b) transfer the computation rather than the data
- c) execute an entire process or parts of it at different sites
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. What are characteristics of computation migration?
- a) transfer data by entire file or immediate portion required
- b) transfer the computation rather than the data
- c) execute an entire process or parts of it at different sites
- d) none of the mentioned

View Answer

Answer: b

Explanation: None.

- 11. What are characteristics of process migration?
- a) transfer data by entire file or immediate portion required
- b) transfer the computation rather than the data
- c) execute an entire process or parts of it at different sites
- d) none of the mentioned

View Answer

Answer: c

# Operating System Questions & Answers – Distributed Operating System – Network Structure & Topology

Topology
1. What are parts of network structure ?
a) Workstation
b) Gateway
c) Laptop
d) All of the mentioned
View Answer
Answer: d
Explanation: None.
2. What are valid network topology?
a) Multiaccess bus
b) Ring
c) Star
d) All of the mentioned
View Answer
Answer: d
Explanation: None.
3. What are sites in network topology compared?
a) Basic cost b) Communication cost
c) Reliability
d) All of the mentioned
View Answer
Answer: d
Explanation: None.
A CLITTIC WITH MARKAY 3/21
4. Which design features of a communication network are important?
a) Naming and name resolution
b) Routing strategies
c) Connection strategies d) All of the mentioned
View Answer
VIEW Alliswei
Answer: d
Explanation: None.
5. What are characteristics of Naming and Name resolution ?
a) name systems in the network
b) address messages with the process-id
c) virtual circuit
d) message switching
View Answer
Anguar h
Answer: b Explanation: None.
And promise and a state of the

 $\ensuremath{\mathsf{6}}.$  What are routing strategies which is not used in distributed systems ?

a) Fixed routing

- b) Token routing
- c) Virtual circuit
- d) Dynamic routing

Answer: c

Explanation: None.

- 7. What are connection strategies not used in distributed systems?
- a) Circuit switching
- b) Message switching
- c) Token switching
- d) Packet switching

View Answer

Answer: c

Explanation: None.

- 8. How is are collisions avoided in network?
- a) Carrier sense with multiple access (CSMA); collision detection (CD)

DEWITHAR

- b) Carrier sense multiple access with collision avoidance
- c) Message slots
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 9. What is common problem found in distributed system?
- a) Process Synchronization
- b) Communication synchronization
- c) Deadlock problem
- d) Power failure

View Answer

Answer: c

# $\begin{tabular}{ll} Operating System Questions \& Answers - Distributed Operating System - Robustness of Distributed Systems \\ \end{tabular}$

1. How many layers does Internet model ISO consists of?
a) Three
b) Five
c) Seven
d) Eight
View Answer
Answer: c Explanation: None.
2. Which layer is responsible for The process-to-process delivery?  a) Network b) Transport c) Application d) Physical View Answer
Answer: b Explanation: None.
3. Which layer is the layer closest to the transmission medium? a) Physical b) Data link c) Network d) Transport View Answer
Answer: a Explanation: None.
4. Header arewhen data packet moves from upper to the lower layers?  a) Modified
b) Removed
c) Added
d) All of the mentioned
View Answer
Answer: c
Explanation: None.
5. Which layer lies between transport layer and data link layer ?
a) Physical
b) Network
c) Application
d) Session
View Answer
Answer: b
Explanation: None.
Explanation, Polic.
<ul><li>6. Which of the following is an application layer service ?</li><li>a) Mail service</li></ul>

- b) File transfer
- c) Remote access
- d) All of the mentioned

Answer: d

Explanation: None.

- 7. What are different ways distributed may suffer?
- a) Failure of a link
- b) Failure of a site
- c) Loss of message
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 8. What are design issues in distributed system structure?
- a) Scalability
- b) Fault-tolerance
- c) Clustering
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 9. In which OSI layer encryption and decryption happens?
- a) Application
- b) Presentation
- c) Transport
- d) Data Link

View Answer

Answer: b

Explanation: None.

- 10. What are important step followed when recovery from failure happens?
- a) Post repairing integration with main system should happen smoothly and gracefully
- b) Upon link failure both parties at end must not be notified
- c) Fault recovery system must me adjusted
- d) Failures are logged systematically

View Answer

Answer: a

### Operating System Questions & Answers – Distributed File System – 1

- 1. What are the different ways in which clients and servers are dispersed across machines?
- a) Servers may not run on dedicated machines
- b) Servers and clients can be on same machines
- c) Distribution cannot be interposed between a OS and the file system
- d) OS cannot be distributed with the file system a part of that distribution

View Answer

Answer: b

Explanation: None.

- 2. What are not the characteristics of a DFS?
- a) login transparency and access transparency
- b) Files need not contain information about their physical location
- c) No Multiplicity of users
- d) No Multiplicity if files

View Answer

AAnswer: c

Explanation: None.

- 3. What are characteristic of a DFS?
- a) Fault tolerance
- b) Scalability
- c) Heterogeneity of the system
- d) Upgradation

View Answer

Answer: d

Explanation: None.

- 4. What are the different ways file accesses take place?
- a) sequential access
- b) direct access
- c) indexed sequential access
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 5. Which is not a major components of file system?
- a) Directory service
- b) Authorization service
- c) Shadow service
- d) System service

View Answer

Answer: c

- 6. What are the different ways mounting of file system?
- a) boot mounting
- b) auto mounting

- c) explicit mounting
- d) all of the mentioned

Answer: d

Explanation: None.

- 7. What is the advantage of caching in remote file access?
- a) Reduced network traffic by retaining recently accessed disk blocks
- b) Faster network access
- c) Copies of data creates backup automatically
- d) None of the mentioned

View Answer

Answer: a

Explanation: None.

- 8. What is networked virtual memory?
- a) Caching
- b) Segmentation
- c) RAM disk
- d) None of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. What are examples of state information?
- a) opened files and their clients
- b) file descriptors and file handles
- c) current file position pointers
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 10. Which is not an examples of state information?
- a) Mounting information
- b) Description of HDD space
- c) Session keys
- d) Lock status

View Answer

Answer: b

### Operating System Questions & Answers – Distributed File System – 2

- 1. What is a stateless file server?
- a) It keeps tracks of states of different objects
- b) It maintains internally no state information at all
- c) It maintains some information in them
- d) None of the mentioned

View Answer

Answer: b

Explanation: None.

- 2. What are the characteristics of stateless server?
- a) Easier to implement
- b) They are not fault-tolerant upon client or server failures
- c) They store all information file server
- d) They are redundant to keep data safe

View Answer

Answer: a

Explanation: None.

- 3. Implementation of a stateless file server must not follow?
- a) Idempotency requirement
- b) Encryption of keys
- c) File locking mechanism
- d) Cache consistency

View Answer

Answer: b

Explanation: None.

- 4. What are the advantages of file replication?
- a) Improves availability & performance
- b) Decreases performance
- c) They are consistent
- d) Improves speed

View Answer

Answer: a

Explanation: None.

- 5. What are characteristic of NFS protocol?
- a) Search for file within directory
- b) Read a set of directory entries
- c) Manipulate links and directories
- d) All of the mentioned

View Answer

Answer: d

- 6. What is coherency of replicated data?
- a) All replicas are identical at all times
- b) Replicas are perceived as identical only at some points in time

- c) Users always read the most recent data in the replicas
- d) All of the mentioned

Answer: d

Explanation: None.

- 7. What are the three popular semantic modes?
- a) Unix, Coherent & Session semantics
- b) Unix, Transaction & Session semantics
- c) Coherent, Transaction & Session semantics
- d) Session, Coherent semantics

View Answer

Answer: b

Explanation: None.

- 8. What are the characteristics of Unix semantics?
- a) Easy to implement in a single processor system
- b) Data cached on a per process basis using write through case control
- c) Write-back enhances access performance
- d) All of the mentioned

View Answer

Answer: d

Explanation: None.

- 9. What are the characteristics of transaction semantics?
- a) Suitable for applications that are concerned about coherence of data
- b) The users of this model are interested in the atomicity property for their transaction
- c) Easy to implement in a single processor system
- d) Write-back enhances access performance

View Answer

Answer: b

Explanation: None.

- 10. What are non characteristics of session semantics?
- a) Each client obtains a working copy from the server
- b) When file is closed, the modified file is copied to the file server
- c) The burden of coordinating file sharing is ignored by the system
- d) Easy to implement in a single processor system

View Answer

Answer: d

## Operating System Questions & Answers – Distributed File System – 3

1. The file once created can not be changed is called
a) immutable file
b) mutex file
c) mutable file
d) none of the mentioned
View Answer
Answer: a
Explanation: None.
2of the distributed file system are dispersed among various machines of distributed system.
a) Clients
b) Servers
c) Storage devices
d) All of the mentioned
View Answer
Answer: d
Explanation: None.
3is not possible in distributed file system.
a) File replication
b) Migration c) Client interface
d) Remote access
View Answer
Answer: b
Explanation: None.
2.7
4. Which one of the following hides the location where in the network the file is stored?
a) transparent distributed file system
b) hidden distributed file system
c) escaped distribution file system
d) spy distributed file system
View Answer
Answer: a
Explanation: None.
5. In distributed file system, when a file's physical storage location changes
a) file name need to be changed
b) file name need not to be changed
c) file's host name need to be changed
d) file's local name need to be changed
View Answer
Answer: b
Explanation: None.
6. In distributed file system,is mapping between logical and physical objects.
a) client interfacing
b) naming

- c) migration
- d) heterogeneity

Answer: b

Explanation: None.

- 7. In distributed file system, a file is uniquely identified by
- a) host name
- b) local name
- c) the combination of host name and local name
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 8. There is no need to establish and terminate a connection through open and close operation in
- a) stateless file service
- b) stateful file service
- c) both stateless and stateful file service
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 9. In distributed file system, file name does not reveal the file's
- a) local name
- b) physical storage location
- c) both local name and physical storage location
- d) none of the mentioned

View Answer

Answer: b
Explanation: None.

10. Which one of the following is a distributed file system?

- a) andrew file system
- b) network file system
- c) novel network
- d) all of the mentioned

View Answer

Answer: d

### **Operating System Questions & Answers – Distributed Coordination**

a) i
b) i, ii and ii
c) ii and iii
d) i, iii and iv
View Answer
Answer: b
Explanation: None.
a) i
b) i and iv
c) i, ii and iii
d) ii, iii and iv
View Answer
Answer: d
Explanation: None.
Explanation. Notice
2 W/L t and the above statistics of control and aircraft and aircraft and are and 2
3. What are the characteristics of mutual exclusion using centralized approach?
a) One processor as coordinator which handles all requests
b) It requires request, reply and release per critical section entry c) The method is free from starvation
d) All of the mentioned
View Answer
View Allswer
Answer: d
Explanation: None.
a) i
c) ii and iii
b) i and ii c) ii and iii d) iii and iv
View Answer
Answer: b
Explanation: None.
a) i
b) ii and iii
c) i, ii and iii
d) i, ii and iv
View Answer
Answer: d
Explanation: None.

- 6. What is the characteristics of atomicity?
- a) All operations associated are executed to completion or none are performed
- b) One processor as coordinator which handles all requests
- c) When responses are received from all processes, then process can enter its Critical Section
- d) Use communication links

View Answer

Answer : a Explanation: None.

- 7. What things are transaction coordinator is responsible for ?
- a) Starting the execution of the transaction
- b) Breaking transaction into a number of subtransactions
- c) Coordinating the termination of the transaction
- d) All of the mentioned

View Answer

Answer : d Explanation: None.

- 8. Single coordinator approach has the following advantages:
- a) Simple implementation
- b) Simple deadlock handling
- c) bottleneck
- d) All of the mentioned

View Answer

Answer : d Explanation: None.

- 9. Single coordinator approach has the following disadvantages:
- a) Bottleneck
- b) Slow response
- c) Deadlock
- d) One request per second

View Answer

Answer : a Explanation: None.

- 10. What are the disadvantages of majority protocol?
- a) Complicated implementation
- b) Deadlock cannot occur easily
- c) Bottleneck
- d) All of the mentioned

View Answer

Answer : a Explanation: None.

- 11. What are the parts of global unique identifier?
- a) Local unique timestamp
- b) Remote timestamp
- c) Clock number
- d) All of the mentioned

View Answer

Answer : a Explanation: None.

- 12. Which are the two complementary deadlock-prevention schemes using timestamps?
- a) The wait-die & wound-wait scheme
- b) The wait-n-watch scheme

- c) The wound-wait scheme
- d) The wait-wound & wound-wait scheme View Answer

Answer : a Explanation: None.



## **Operating System Questions & Answers – Distributed Synchronization**

1. In distributed systems, a logical clock is associated with
a) each instruction
b) each process
c) each register
d) none of the mentioned
View Answer
Answer: b
Explanation: None.
2. If timestaming of two events are some than the events are
2. If timestamps of two events are same, then the events are
a) concurrent
b) non-concurrent
c) monotonic
d) non-monotonic View Answer
View Allswer
Answer: a
Explanation: None.
3. If a process is executing in its critical section
a) any other process can also execute in its critical section
b) no other process can execute in its critical section
c) one more process can execute in its critical section
d) none of the mentioned
View Answer
THOW THIS WELL
Answer: b
Explanation: None.
ACCELUITII ABBAULO /
4. A process can enter into its critical section
a) anytime
b) when it receives a reply message from its parent process
c) when it receives a reply message from all other processes in the system
d) none of the mentioned
View Answer
Answer: c
Explanation: None.
5. For proper synchronization in distributed systems
a) prevention from the deadlock is must
b) prevention from the starvation is must
c) prevention from the deadlock & starvation is must
d) none of the mentioned
View Answer
Another o
Answer: c
Explanation: None.

- 6. In the token passing approach of distributed systems, processes are organized in a ring structure
- a) logically
- b) physically

- c) both logically and physically
- d) none of the mentioned

Answer: a

Explanation: None.

- 7. In distributed systems, transaction coordinator
- a) starts the execution of transaction
- b) breaks the transaction into number of sub transactions
- c) coordinates the termination of the transaction
- d) all of the mentioned

View Answer

Answer: d

Explanation: None.

- 8. In case of failure, a new transaction coordinator can be elected by
- a) bully algorithm
- b) ring algorithm
- c) both bully and ring algorithm
- d) none of the mentioned

View Answer

Answer: c

Explanation: None.

- 9. In distributed systems, election algorithms assumes that
- a) a unique priority number is associated with each active process in system
- b) there is no priority number associated with any process
- c) priority of the processes is not required
- d) none of the mentioned

View Answer

Answer: a

Explanation: None.

- 10. According to the ring algorithm, links between processes are
- a) bidirectional
- b) unidirectional
- c) both bidirectional and unidirectional
- d) none of the mentioned

View Answer

Answer: b



https://www.youtube.com/@codewitharrays



https://www.instagram.com/codewitharrays/



https://t.me/codewitharrays Group Link: https://t.me/cceesept2023



+91 8007592194 +91 9284926333



codewitharrays@gmail.com



https://codewitharrays.in/project