

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Do you feel that is there any main concern about time constraint in real time operating system that a programmer must keep that in mind while writing an Operating System for a real-time environment? If not then give reason to support your answer and if yes then mention that main concern?

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Answer (Please [click here](#) to Add Answer)

Normal Arial 12 B I U

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Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

A -----system collects physically separate, possibly heterogeneous, systems into a single coherent system, providing the user with access to the various resources that the system maintains

Answer (Please select your correct option)

Distributed

Real-time

Single user

Time-sharing

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Wait and signal operations of semaphores were originally termed -----

Answer (Please select your correct option)

P and V respectively.

V and P respectively.

P and P respectively.

V and V respectively.

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

The total size of ----- in a system is equal to the size of its main memory.

In this case we refer to the logical address as the **virtual address**. The set of all logical addresses generated by a program form the **logical address space** of a process; the set of all physical addresses corresponding to these logical addresses is a **physical address space** of the process. **The total size of physical address space in a system is equal to the size of its main memory**

Answer (Please select your correct option)

- Physical address space
- Process address space
- Process address space
- Logical address space
- None of the given options

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

-----holds the smallest legal physical memory address for a process

Answer (Please select your correct option)

- Limit register
- Index register
- Stack pointers register
- Base register

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Physical memory is broken down into fixed-sized blocks, called----- and Logical memory is divided into blocks of the same size, called -----

Answer (Please select your correct option)

Frames, pages

Pages, Frames

Frames, holes

Holes, segments

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

When a _____ link is created, a directory entry for the existing file is created

Answer (Please select your correct option)

- Soft
- Hard
- Soft or Hard
- Soft or Hard

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Marks: 1 (Budgeted Time 1 Min)

In _____, each file is a linked list of disk blocks: blocks may be scattered anywhere on the disk.

Answer (Please select your correct option)

Indexed Allocation

Contiguous Allocation

Linked Allocation

None of the given options

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

Shared libraries and kernel modules are stored in _____ directory

Answer (Please select your correct option)

/bin

/dev

/boot

/lib

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

The integer value of _____ semaphores can not be greater than 1.

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Answer (Please select your correct option)

Bounded buffer

Counting

Binary

Mutex

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Following is not the classical problem of synchronization.

Answer (Please select your correct option)

- Bounded buffer problem
- Reader writer problem
- Dining philosophers problem
- Counting Semaphore problem

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The _____ requires that no reader will be kept waiting unless a writer has already obtained permission to use the shared object.

Answer (Please select your correct option)

first readers-writers problem

second readers-writers problem

third readers-writers problem

fourth readers-writers problem

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

The problem of Deadlocks can be solved by _____ method(s).

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Answer (Please select your correct option)

- Deadlock prevention
- Deadlock avoidance
- Allowing deadlock and recovery
- All of the given

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

A process is _____ if it is spending more time on paging

Answer (Please select your correct option)

- Thrashing
- Demand paging
- Paging
- Fixed Allocation

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

In _____ page replacement algorithm oldest frame is replaced with another.

Answer (Please select your correct option)

- LIFO
- FIFO
- LRU
- Optimal

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

The most important property of the working set is its _____.

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Answer (Please select your correct option)

delay

thrashing

time

size

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Marks: 1 (Budgeted Time 1 Min)

Secondary Storage memory devices have _____ memory

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Answer (Please select your correct option)

- Volatile
- Non-volatile
- Non-volatile
- Temporary
- Temporary
- None of the option is correct

Correct answer solved by Hadi

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

For some page replacement algorithms, the page fault rate may increase as the number of allocated frames _____.

Answer (Please select your correct option)

Keep Constant

Increases

Decreases

All of above

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is caused due to un-used space in physical memory.

Answer (Please select your correct option)

Internal fragmentation

External fragmentation

Paging

MVT

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The size of a page is defined by _____

Answer (Please select your correct option)

CPU

Page Table

Physical Memory

Logical Memory

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

In the Scan algorithm the disk _____ starts at one end of the disk, and moves toward the other end, servicing requests as it reaches each cylinder, until it gets to the other end of the disk.

Scan

In the Scan algorithm the disk arm starts at one end of the disk, and moves toward the other end, servicing requests as it reaches each cylinder, until it gets to the other end of the disk

Answer (Please select your correct option)

arm

cylinder

head

non of these

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In paged segmentation, we divide every segment in a process into _____ pages.

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Answer (Please select your correct option)

Fixed size



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Variable size

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

In paged segmentation, the logical address is legal if d is _____ segment length.

Answer (Please select your correct option)

Less than 

Greater than

Equal to

Greater than or equal to

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Time from submission to completion of process is called -----

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Answer (Please select your correct option)

Response Time

Throughput

Waiting Time

Turnaround Time:  The interval from the time of submission to the time of completion is the

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

In case of a multi-processor environment, to ensure the atomic execution, one can

In case of a multi-processor environment, to ensure atomic execution is one can lock the data bus, or use a soft solution such as the Bakery algorithm.

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Answer (Please select your correct option)

- Lock the data bus
- Use a soft solution
- hardware instruction only
- both Lock the data bus and Use a soft solution

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

In _____ frame allocation scheme free frames are equally divided among processes

Fixed allocation

In this scheme free frames are equally divided among processes

Proportional Allocation

Number of frames allocated to a process is proportional to its size in this scheme

Answer (Please select your correct option)

Fixed

Proportional

Priority

All of the given

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

ln -s command is used to create a _____ link

Answer (Please select your correct option)

- Soft
- Hard
- Soft or Hard
- None of the given options

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

----- automatically holds for printers and other non-sharables

Answer (Please select your correct option)

Hold and wait

Circular wait

Mutual exclusion

No preemption:

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

The main disadvantage of semaphore is -----

Answer (Please select your correct option)

- Context switching
- Busy waiting
- Synchronization
- None of the given options

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Marks: 1 (Budgeted Time 1 Min)

-----keeps in memory only those instructions and data that are needed at any given time.

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Answer (Please select your correct option)

- Paging
- Swapping
- Overlays
The idea of overlays is to keep in memory only those instructions and data that are needed at any given time
- Fragmentation

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is/are a memory management scheme that supports programmer's view of memory.

Answer (Please select your correct option)

- Paging
- Segmentation
- All of the given options
- Demand Paging

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is the time for the disk arm to move the head to the cylinder containing the desired sector

Answer (Please select your correct option)

Rotational Latency

Access Time

None of the given options

Seek time

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Marks: 1 (Budgeted Time 1 Min)

-----are used for communication between related or unrelated processes on a UNIX/Linux system.

Answer (Please select your correct option)

- Pipes **Pipe:** Pipes are used for communication between related processes on a system, a
- Named pipe (FIFO)
- BSD Sockets
- None of the given options

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

Linux is a version of

Answer (Please select your correct option)

Windows

Solaris

Unix

Mac

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Java virtual machine executes programs that have been translated into

Answer (Please select your correct option)

Java bytecode

Java Virtual Machine (JVM) loads, verifies, and executes programs that have been translated into Java Bytecode

Java binarycode

Java bitcode

None of the given

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Marks: 1 (Budgeted Time 1 Min)

What is different in parent and child processes?

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Answer (Please select your correct option)

- Process ID
- Open file descriptor table
- Root directory
- Environment

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Marks: 1 (Budgeted Time 1 Min)

Shell is the exclusive feature of

Answer (Please select your correct option)

Application Software

System Software

DOS

UNIX

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Round robin is very good for _____ where response is an important issue

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Answer (Please select your correct option)

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- Scope
- Batch system
- Time sharing system
- None of the given

not sure

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Marks: 1 (Budgeted Time 1 Min)

_____ is a high speed cache used to hold recently referenced page table entries a part of paged virtual memory

In the translation look-aside buffer (TLB)
A solution to this problem is to use special, small, fast lookup
hardware, called
translation look-aside buffer (TLB),

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Answer (Please select your correct option)

Translation Look aside buffer

not sure

Inverse page table

Segmented page table

All the above

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

The mechanism that brings a page into memory only when it is needed is called _____

Answer (Please select your correct option)

Segmentation

Fragmentation

Demand Paging

Page Replacement

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_____ happens when a dynamic memory allocation algorithm allocates some memory and a small piece is left over that cannot be effectively used.

Answer (Please select your correct option)

Fragmentation

Segmentation

not sure

External Fragmentation

Internal Fragmentation

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

What is a file control block?

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Answer (Please [click here](#) to Add Answer)

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File Control Block

A file control block is a memory data structure that contains most of the attributes of a file.

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Under what conditions can you use the Wait-for graph to detect deadlock?

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If all resources have only a single instance, then we can define a deadlock detection algorithm that uses a variant of the resource allocation graph, called a wait-for graph.

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Name any two schemes that allows efficient implementation of page table?

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In the CPU registers

In the main memory

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

"Critical section means the section of code in two processes or more than two processes that is used to update a resource (e.g. a shared variable) which is shared between these processes." Do you agree with the statement or not? If not, then give reason to support your answer.

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we write that line

Critical Section: A piece of code in a cooperating process in which the process may updates shared data (variable, file, database, etc.).

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How can you differentiate between external and internal fragmentation.

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Internal Fragmentation is the area in a region or a page that is not used by the job occupying that region or page. This space is unavailable for use by the system until that job is finished and the page or region is released.

External fragmentation

As processes come and go, *holes* of free space are created

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Write down the type of bits associated with each entry of segment table for protection?

Answer (Please [click here](#) to Add Answer)



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The bits associated with each entry in the segment table, for the purpose of protection are:

- Validation bit : if the validation bit is 0, it indicates an illegal segment
- Read, write, execute bits

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Different type of threads work in operating system, one of them is process threads and other one is kernel threads. If the kernel of the operating system does not know about these threads and the operating systems is fully aware of them and operating system does not know that these threads use either M:1 or M:N mapping. These threads are scheduled by the thread library and are not associated with any process but every thread belongs to a process and these threads are very easily managed. You need identify the type of these threads.

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Answer (Please [click here](#) to Add Answer)

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Let us consider an example of frame allocation:

Number of free frames = 64

Number of processes = 3

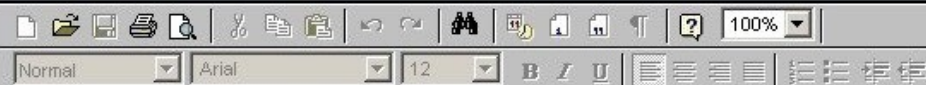
Process sizes: P1 = 10 pages; P2 = 40 pages; P3 = 127 pages

Discuss how many free frames will be put in the free frames list by using Proportional Allocation?

Answer (Please [click here](#) to Add Answer)

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Number of free frames = 64

Number of processes = 3

Process sizes: P1 = 10 pages; P2 = 40 pages; P3 = 127 pages

☑ Fixed allocation

64/3 = 21 frames per process and one put in the free frames list

☑ Proportional Allocation

☑ s_i = Size of process P_i

☑ $S = \sum s_i$

☑ m = Number of free frames

☑ a_i = Allocation for $P_i = (s_i / S) * m$

☑ $a_1 = (10 / 177) * 64 = 3$ frames

☑ $a_2 = (40 / 177) * 64 = 14$ frames

☑ $a_3 = (127 / 177) * 64 = 45$ frames

☑ Two free frames are put in the list of free frames

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

What is the command for mounting in UNIX, describe mounting in UNIX.

Answer (Please [click here](#) to Add Answer)

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Mounting in UNIX

All files accessible in a Unix system are arranged in one big tree, the file hierarchy, rooted at /. These files can be spread out over several devices. The mount command serves to attach the file system found on some device to the big file tree. Conversely, the umount command will detach it again. Here is the syntax of the mount command

```
mount -t type device dir
```

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

What are the possible criteria to decide that which process should be terminated while deadlock detection and recovery?

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Answer (Please [click here](#) to Add Answer)

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When a deadlock detection algorithm determines that a deadlock exists, several alternatives exist. One possibility is to inform the operator that a deadlock has occurred, and to let the operator deal with the deadlock manually. The other possibility is to let the system recover from the deadlock automatically. There are two options for breaking a deadlock. One solution is simply to abort one or more processes to break the circular wait. The second option is to preempt some resources from one or more of the deadlocked processes

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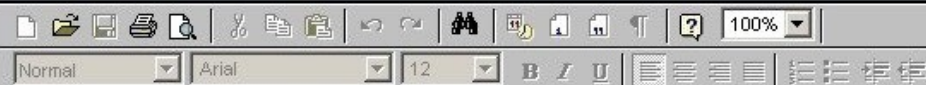
Three jobs (times: A=100, B=1, C=2) arrive in the order A, B, C.

Calculate the average waiting time and average turnaround time using First come, First serve algorithm. Also draw the gantt chart for the problem.

Answer (Please [click here](#) to Add Answer)

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Waiting times P1 = 0; P2 = 24; P3 = 27

☑ Average waiting time: $(0+24+27)/3 = 17$

Turnaround time: The interval from the time of submission to the time of completion is the **turnaround time**. Turnaround time is the sum of the periods spent waiting to get into memory, waiting in the ready queue, executing on the CPU and doing I/O. We want to minimize the turnaround time

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