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A Good Education is a Foundation For a Better Future

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(Final Term Past Paper)

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Best of luck!



1 KB or 1 kilobyte is equivalent to -----

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Answer (Please select your correct option)

- 10 bytes
- 1000 bytes
- 1024 bytes
- 10000 bytes



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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

A distributed 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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Preemptive -----scheduling is sometimes called **shortest-remaining-time-first** scheduling.

Preemptive SJF scheduling is sometimes called shortestremaining-time-first scheduling.

page 83

Answer (Please select your correct option)

 First-Come-First-Served (FCFS) Round-Robin Sorted Job First (SJF) Priority

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In ----- technique, memory is divided into several fixed-size partitions.

Multiprogramming with Fixed Tasks (MFT)

In this technique, memory is divided into several fixed-size partitions.

page 160

Answer (Please select your correct option)

- Swapping
- Overlays
- Multiprogramming with Fixed Tasks (MFT)
- Multiprogramming with Variable Tasks (MVT)

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Every -----generated by the CPU is divided into two parts: a page number (p) and a page offset (d).

Every logical address generated by the CPU is divided into two parts: a page number (p) and a page offset (d).

page 164

Answer (Please select your correct option)

- Page
- Process address space
- Physical address
- Logical address

correct

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If validation bit is 0, it indicates a/an ----- state of segment.

Validation bit : if the validation bit is 0, it indicates an illegal segment

page 178

Answer (Please select your correct option)

protected

shared

legal

illegal

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_____ is based on the locality of reference concept— the least frequently used page is not in the current locality

This algorithm is based on the locality of reference concept— the least frequently used page is not in the current locality. LFU

page 204

Answer (Please select your correct option)

Least Frequently Used algorithm



Page Buffering Algorithm

None of the given options

Most Frequently Used algorithm

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In _____ allocation scheme number of frames allocated to a process is proportional to its size .

Proportional Allocation

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

page 205

Answer (Please select your correct option)

None of the given options

Fixed Allocation

Proportional Allocation

Priority Allocation

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In case of thrashing if CPU utilization is too low the operating system _____ the degree of multiprogramming

if CPU utilization is too low, the operating system increases the degree of multiprogramming by introducing one or more new processes to the system.

page 208

Answer (Please select your correct option)

Increases



Decreases

Increases or Decreases

None of the given options

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_____ enable processes to communicate with each other

FIFO enable processes to communicate with each other.

page 218

Answer (Please select your correct option)

Directory

FIFO

Link File

Ordinary File



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

When a hard link is created, a directory entry for the existing file is created—there is still only one file.

page 225

Answer (Please select your correct option)

Soft

Hard

Soft or Hard

Soft or Hard



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

Linked Allocation

Each file is a linked list of disk blocks: blocks may be scattered anywhere on the disk.

page 235

Answer (Please select your correct option)

Indexed Allocation

Contiguous Allocation

Linked Allocation

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None of the given options

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Shared libraries and kernel modules are stored in _____ directory

/lib Shared libraries and kernel modules are stored in this directory

page 23

Answer (Please select your correct option)

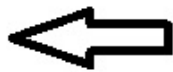
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/bin

/dev

/boot

/lib



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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

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

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

page 119

Answer (Please select your correct option)

LIFO

FIFO



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LRU

Optimal

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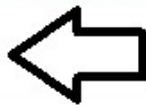
In Resource Allocation Graph, a $P_i \rightarrow R_j$ indicates that process P_i may request resource R_j at some time in the future.

Resource Allocation Graph Algorithm

In addition to the request and assignment edges explained in the previous lectures, we introduce a new type of edge called a claim edge to resource allocation graphs. A claim edge $P_i \rightarrow R_j$ indicates that process P_i may request resource R_j at some time in the future.

page 136

Answer (Please select your correct option)

 Claim edge Request edge Assignment edge Allocation edge

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Assume a logical address space of 16 pages of 1024 words, each mapped into a physical memory of 32 frames. Each word consists of 2 bytes. What will be the total number of bits required for **p** (page number)?

Assume a logical address space of 16 pages of 1024 words, each mapped into a physical memory of 32 frames. No. of bits needed for $p = \text{ceiling} [\log_2 16] \text{ bits} = 4 \text{ bits}$

page 166

Answer (Please select your correct option)

 4 bits 8 bits 16 bits 32 bits

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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.

page 245

Answer (Please select your correct option)

arm 

cylinder

head

non of these

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Segmentation is a memory management scheme that supports _____

Segmentation is a memory management scheme that supports programmer's view of memory.

page 176

Answer (Please select your correct option)

Programmer's view of memory



System's view of memory

Hardware's view of memory

None of the given

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_____ is a variation of fork system call in several Unix operating system used for Virtual Memory.

vfork()

Several versions of UNIX provide a variation of the fork() system call—vfork() (for virtual memory fork).

page 194

Answer (Please select your correct option)

vfork ()



wfork ()

avfork ()

bfork ()

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The bottom layer in the layered approach of Operating System is-----

page 20

Answer (Please select your correct option)

User interface

Hardware

Kernel

None of the given options



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Named pipes give a -----flow of data by default

46 page

Answer (Please select your correct option)

- half-duplex (one-way)
- full duplex(both-ways)
- both half-duplex and full duplex
- none of the given options



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

Fixed allocation
In this scheme free frames are equally divided among processes

page 205

Answer (Please select your correct option)

- Fixed
- Proportional
- Priority
- All of the given



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

Answer (Please select your correct option)

Hold and wait



checking require

Circular wait

Mutual exclusion

No preemption:

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----- is a single program that produces an object file

Answer (Please select your correct option)

- Linker
- Compiler
- Loader
- Text editor



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

The idea of overlays is to keep in memory only those instructions and data that are needed at any given time.

page 157

Answer (Please select your correct option)

- Paging
- Swapping
- Overlays
- Fragmentation



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The address generated by the CPU, after any indexing or other addressing-mode arithmetic, is called a -----address, and the address it gets translated to by the MMU is called a -----address.

page 153

Answer (Please select your correct option)

 Virtual, physical Hexadecimal, Binary, Valid, invalid Physical, Virtual

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

page 176

Answer (Please select your correct option)

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



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A new process is created by the----- system call

Answer (Please select your correct option)

- exit
- fork
- wait
- exec



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midterm solve

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The ----- are used for communication between related or unrelated processes on the same system or unrelated processes on different systems.

BSD Socket: The BSD sockets are used for communication between related or unrelated processes on the same system or unrelated processes on different systems,

page 50

Answer (Please select your correct option)

None of the given

SSD socket

DSD socket

BSD sockets



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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

High-level synchronization construct that allows the safe sharing of an abstract data type among concurrent processes is called a -----

Answer (Please select your correct option)

Read/Write Lock

Swap

Semaphore

Monitor

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In system, the user space contains one process at a time because only one process is executing at a given time.

In case of a batch system, the user space contains one process at a time because only one process is executing at a given time.

Answer (Please select your correct option)

Multi programmed

Batch

Time-sharing system

None of the given



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Which one of the following is the correct syntax to copy file1 to file2?

page 27

Answer (Please select your correct option)

cp file2, file1

cp file1/file2



correct

cp file2 file1

cp file1 file2

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_____ points to the smallest memory address of a process.

limit registers are used
to point to the smallest memory address of a process

159 page

Answer (Please select your correct option)

Limit register



Base register

Stack pointer

None of the given

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

A wait operation on a semaphore should not occur within a critical section controlled by that semaphore because

Answer (Please select your correct option)

- A deadlock will occur
- A semaphore is not a shared variable
- A signal on a semaphore is always given from outside the critical section
- None of the given

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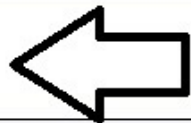
_____ page replacement algorithm suffers from Belady's anomaly.

Example for the FIFO page replacement algorithm
The problem with this algorithm is that it suffers from Belady's anomaly:

199

Answer (Please select your correct option)

- LRU
 - MRU
 - FIFO
 - LIFO
- correct



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Question No : 40 of 52

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

Answer (Please select your correct option)

Translation Look aside buffer

Inverse page table

Segmented page table

All the above

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What do we name to an address that is generated by the CPU?

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

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Which anomaly is involved in FIFO page replacement?

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

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The problem with using an acyclic-graph structure is ensuring that there are no cycles. What is the solution?

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

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What is the difference between a physical address and a virtual address?

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

The image shows a screenshot of a text editor interface. At the top, there is a toolbar with various icons for editing and formatting. Below the toolbar, the text area is mostly empty. A large, semi-transparent watermark "TEAM VU" is visible across the center of the page. Overlaid on the text area is a black rectangular box with white text that reads: "A Good Education is a Foundation For a Better Future", "CORRECT ANSWER SOLVED BY HADI", "EMAIL:hadirajputofficial@gmail.com", and "WHATSAPP& CALL-03087122922". At the bottom of the screenshot, there is a large black banner with white text that reads "MADE BY HADI". To the right of this banner, there is a smaller black box with white text that reads "BITOUT SOFTWARE HOUSE LAHORE" and "(WE DEAL ALL KIND OF VU PROJECT)". Below the main banner, there is a line of text in red and yellow that reads "Email:hadirajputofficial@gmail.comWhatsapp:03087122922(Team Hadi Lahore)".

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What is Mounting? Name two types of mounting. Give your answer with respect to File System?

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

The image shows a screenshot of a text editor interface. The top toolbar includes icons for file operations (New, Open, Save, Print, Find) and editing (Cut, Copy, Paste, Undo, Redo, Bold, Italic, Underline, Bulleted List, Numbered List). The font settings are set to Arial, size 12. A watermark 'TEAM VU' is visible across the center. There are three main promotional overlays:

- A yellow box at the top center containing the text: "A Good Education is a Foundation For a Better Future" and "CORRECT ANSWER SOLVED BY HADI EMAIL:hadirajputofficial@gmail.com WHATSAPP& CALL-03087122922".
- A large black box at the bottom center with the text: "MADE BY HADI".
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At the bottom of the screenshot, there is a line of text: "Email:hadirajputofficial@gmail.comWhatsapp:03087122922(Team Hadi Lahore)".

How vfork system call differs from fork system call?

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



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Consider this algorithm for mutual exclusion.

```
Process 1 {  
while true {  
    while (turn == 1)  
        ; /* do nothing */
```

```
Process 2 {  
while true {  
    while (turn == 2)  
        ; /* do nothing */
```

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



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Briefly explain that how a Page Fault occurs and who is responsible to handle Page Fault?

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



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In case of file protection, what should the file owner/creator be able to control? And what operations need to be controlled?

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

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Analyze that how an operating system protects the CPU.

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

The image shows a screenshot of a text editor window. At the top, there is a toolbar with various icons for editing and formatting. Below the toolbar, the text "A Good Education is a Foundation For a Better Future" is visible. A large, semi-transparent watermark "TEAM HADI" is overlaid on the text. In the center, there is a black box with white text that reads: "CORRECT ANSWER SOLVED BY HADI", "EMAIL:hadirajputofficial@gmail.com", and "WHATSAPP& CALL:03087122922". At the bottom of the screenshot, there is a large black box with white text that reads "MADE BY HADI". To the right of this box, there is another black box with white text that reads "BITOUT SOFTWARE HOUSE LAHORE" and "(WE DEAL ALL KIND OF VU PROJECT)". At the very bottom, there is a line of text in yellow and red: "Email:hadirajputofficial@gmail.comWhatsapp:03087122922(Team Hadi Lahore)".

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Let us consider a page size of 16 bytes and process address space of 32 pages and physical address space of 64 frames. Calculate the following.

- Size of logical address i.e. Number of bits needed to uniquely identify a page in this address space of 16 pages.
- Logical address in bits for (18, 10). Where 'p' and 'd' are 18 and 10 respectively.

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



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