

# VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI  
EMAIL: hadirajputofficial@gmail.com  
WHATSAPP & CALL: 03087122922

## (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!

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## FINAL TERM PAST PAPER SOLVED BY TEAM HADI VU

CODE: CS604

Question 1: \_\_\_\_\_ enable processes to communicate with each other.

- Ordinary
- File Link
- File Directory
- **FIFO**

Question 2: The \_\_\_\_\_ algorithm selects the request with the minimum seek time from the current head position

- Scan
- **SSTF**
- Look
- C-Look

Question 3: wastes CPU cycles and hence a problem in real multiprogramming system.

- **Busy waiting**
- Semaphore
- Critical section
- Mutex

Question 4: A new process can be created by using.

- Trap
- Signal
- Interrupt
- **Fork System Call**

Question 5: In Linux, the directory that contains all other directories, is known as.

- Home directory
- Current directory
- Child directory
- **Root directory**

Question 6: Which of the following statement is true for "1" in the command "cat 1 < admin"?

- it is to be printed on screen
- it is to be read from file admin
- it is a standard file descriptor
- the given syntax is incorrect

Question 7: When a process requests an available resource, system must decide that if an immediate allocation leaves the system in a ,state.

- Ready
- Running
- Blocked
- **Safe**

Question 8: In memory management, a technique called as paging, physical memory is broken into fixed-sized blocks called.

- Pages
- **Frames**
- Blocks
- Segments

Question 9: The principle of locality of reference justifies the use of.

- Virtual Memory
- Interrupts
- Main memory
- **Cache memory**

Question 10: \_\_\_\_\_ occurs in a dynamic memory allocation system when many of the free blocks are too small to satisfy any request.

- Segmentation
- Virtual memory
- Page fault
- **Fragmentation**

Question 11: Which of the following statements is false?

- Virtual memory implements the translation of a program's address space into physical memory address space
- Virtual memory allows each program to exceed the size of the primary memory
- Virtual memory increases the degree of multiprogramming
- Virtual memory reduces the context switching overhead

Question 12: When a Answer \_\_link is created, a directory entry for the existing file is created.

- Pointer
- Stack
- Soft

- **Hard**

Question 13: Consider process A is trying to access a page that does not belong to its address space. Which of the following protection scheme provide protection against such actions under paging?

- **Valid invalid (v) bit**
- Null bit parity (n) bit
- Execute parity (e) bit
- Write/null (w) bit

Question 14: --is the separation of user logical memory from physical memory.

- **Virtual Memory**
- RAM
- Physical memory
- ROM

Question 15: Address Binding will be performed at \_\_\_\_\_ in Multiprogramming with Fixed Tasks (MFT).

- **Load time**
- Run time
- Compile time
- Execution time

Question 16: In \_\_\_\_\_ scheme, free frames are equally divided among processes.

- **Fixed Allocation**
- Propotional Allocation
- Priority Allocation
- Variance Allocation

Question 17: In \_\_\_\_\_ scheme, number of frames allocated to a process is proportional to its size.

- **Propotional Allocation.**
- Priority Allocation
- Variance Allocation
- Fixed Allocation

Question 18: \_\_\_\_\_ is the time for the disk arm to move the head to the cylinder containing the desired sector.

- Rotational Latency
- Access Time
- I/O time
- **Seek time**

Question 19: In case of thrashing, if CPU utilization is too low, the operating system \_\_\_\_\_ the degree of multiprogramming.

- **Increases**
- Decreases
- Increases or Decreases
- Keeps constant

Question 20: In-s command is used to create a, link.

- **Soft**
- Hard
- Direct
- Indirect

Question 21: When a process needs to execute, memory is requested by the process. The size of the process is compared with the amount of adjacent memory available to execute the process. This method is called.

- **Contiguous Allocation**
- Linked Allocation
- Indexed Allocation
- Variable Allocation

Question 22: The semaphore empty is initialized to the value \_\_\_\_\_; the semaphore full is initialized to the value-

- 0,n
- 1,0
- n,n
- **n,0**

Question 23: A set of processes are said to be in condition\_\_\_\_\_ if each process in the set is waiting for an event that only another process in the set can cause(including itself).

- Mutual exclusion
- **Deadlock**
- Release
- Lock

Question 24: Preventing the condition of\_\_\_\_\_ to happen, deadlocks can be prevented to happen.

- Critical region
- Monitors
- **Circular wait**
- Critical section

Question 25:If validation bit is 0, it indicates a/an - -state of segment.

- Protected
- Shared
- Legal
- **illegal**

Question 26: The term pager is used in connection with\_\_\_\_\_.

- **Demand Paging**
- Paging
- Segmentation
- Paged Segmentation

Question 27: In a UNIX system,\_\_\_\_\_system call can be used to request the operating system to memory map an opened file.

- **mmap()**
- fork()
- exec()
- read()

Question 28: When the address used in a program gets converted to an actual physical RAM address, it is called\_\_\_\_\_.

- Execution
- Loading
- **Address Binding**
- Compiling

Question 29: Overlays are implemented by the\_\_.

- Operating system
- **Programmer**
- Kernel
- Shell

Question 30: Every\_\_\_generated by the CPU is divided into two parts: a page number (p) and a page offset (d).

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

Question 31: The most important property of the working set is its\_\_\_

- Delay
- Thrashing
- Time
- **Size**

Question 32: Which command, displays permissions and some other attributes for prog1.c in your current directory?

- **ls-l prog1.c**
- Is-d prog1.c
- Is file prog1.c
- Is-l prog1.c/Directory

Question 33: In\_\_\_user does not interact with the jobs having similar needs and executed in groups at the same time one after the other.

- Time-sharing systems
- **Batch systems**

- Multi programmed systems
- Single-user system

Question 34: A is \_\_\_ multi-user, multi-process, and interactive system which allows multiple users to use the computer simultaneously.

- Multi-programmed system
- **Time sharing system**... I think
- Real time system
- Batch system

Question 35: A \_\_\_ process is a process that has terminated but whose exit status has not yet been received by its parent process.

- **Zombie**
- Child
- Parent
- New

Question 36: In readers-writer's synchronization problem, the writers should have to \_\_\_ the shared object.

- Exclusive access
- Inclusive access
- **Both Exclusive and Inclusive**
- No access

Question 37: Wait-for graph is a variant of \_\_\_\_\_

- Un-directed Graph
- **Resource Allocation Graph**
- Reserve Allocation Graph
- Resource Approximation Graph

Question 38: The TestAndSet instruction which is a solution to synchronization problem, does not satisfy the \_\_\_ condition, hence not considered to be a solution good.

- Progress
- Mutual exclusion

- No preemption
- **Bounded waiting**

Question 39: \_\_\_\_ Command is used to create a directory in Linux environment.

- **Rmdir... check it**
- Mkdir
- Create
- CD

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