



CS604 - Operating System
Solved MCQS
From Midterm Papers

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PSMD01

MIDTERM EXAMINATION
Spring 2012
CS604 - Operating System

Question No: 1 (Marks: 1) - Please choose one

_____ command to resume the execution of a suspended job in the foreground

▶ **fg (Page 68)**

- ▶ bg
- ▶ jobs
- ▶ kill

Question No: 2 (Marks: 1) - Please choose one

_____ commands in Linux is used to copy file

- ▶ is
- ▶ **cp (Page 30)**
- ▶ mv
- ▶ mkdir

Question No: 3 (Marks: 1) - Please choose one

The process id returned to the child process after successful fork system call execution is _____.

▶ **0 (Page 40)**

- ▶ 1
- ▶ 2
- ▶ 3

Question No: 4 (Marks: 1) - Please choose one

In _____ addressing, the recipient is not required to name the sender.

- ▶ Symmetric
- ▶ **Asymmetric (Page 47)**
- ▶ Both symmetric and asymmetric
- ▶ None of the given options

دنیا میں سب سے مشکل کام اپنی اصلاح اور سب سے آسان کام دوسروں پر نکتہ چینی کرنا ہے

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Question No: 5 (Marks: 1) - Please choose one

A solution to the critical section problem must satisfy the following requirements

- ▶ Progress
- ▶ Mutual exclusion
- ▶ Bounded Waiting
- ▶ **All of these (Page 101)**

Question No: 6 (Marks: 1) - Please choose one

Typically the execp system call is used after a fork system call.

- ▶ **True (Page 39)**
- ▶ False

Question No: 7 (Marks: 1) - Please choose one

You can create a threads by using the pthread_create() call.

- ▶ **True (Page 76)**
- ▶ False

Question No: 8 (Marks: 1) - Please choose one

The interval from the time of submission to the time of completion is the _____

- ▶ **Turnaround time (Page 83)**
- ▶ Waiting time
- ▶ Response time
- ▶ None of all these

Question No: 9 (Marks: 1) - Please choose one

Each process must first request permission to enter its critical section. The section of code implementing this request is called the _____

- ▶ **entry section (Page 100)**
- ▶ Critical Section
- ▶ remainder section
- ▶ None of all these

Question No: 10 (Marks: 1) - Please choose one

IPC provides a mechanism to allow processes to communicate and to synchronize their actions without sharing the same _____

- ▶ **Address space (Page 46)**
- ▶ Address Name
- ▶ Address ID
- ▶ None of all these

خدا کے سوا کسی سے امید مت رکھو

MIDTERM EXAMINATION
Spring 2011
CS604 - Operating System

Question No: 1 (Marks: 1) - Please choose one

Linux is a version of _____ operating system.

- ▶ OS/2
- ▶ Windows
- ▶ **Unix** [click here for detail](#)
- ▶ None of the above

Question No: 2 (Marks: 1) - Please choose one

Current working directory can be accessed using ----- Command.

- ▶ . (dot)
- ▶ # (hash)
- ▶ / (slash)
- ▶ **~ (tilt)** (Page 25)

Question No: 3 (Marks: 1) - Please choose one

Mkfifo() is a _____.

- ▶ **Library Call** (Page 58)
- ▶ Command
- ▶ Directory
- ▶ None of Above

Question No: 4 (Marks: 1) - Please choose one

_____ command gives a snapshot of the current processes.

- ▶ **ps** (Page 66)
- ▶ top
- ▶ who
- ▶ ls

Question No: 5 (Marks: 1) - Please choose one

Time interval when the I/O Devices are accessed is known as -----.

- ▶ CPU Burst
- ▶ **IO Burst** [Click here for detail](#)
- ▶ Time Slice
- ▶ None of Above

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

Question No: 6 (Marks: 1) - Please choose one

The process of switching from one process to another is called -----.

▶ **Context switching (Page 34)**

- ▶ scheduling
- ▶ quantum period
- ▶ latency

Question No: 7 (Marks: 1) - Please choose one

_____ directory includes essential system boot files including the kernel image.

- ▶ /bin
- ▶ **/boot (Page 26)**
- ▶ /dev
- ▶ /etc

Question No: 8 (Marks: 1) - Please choose one

_____ scheduling algorithm is sometimes called shortest remaining time first scheduling algorithm.

- ▶ Non-preemptive SJF
- ▶ Priority Scheduling
- ▶ **Preemptive Shortest Job First (Page 85)**
- ▶ FCFS

Question No: 9 (Marks: 1) - Please choose one

A semaphore that cause Busy-Waiting is termed as _____.

- ▶ **Spinlock (Page 113)**
- ▶ Monitor
- ▶ Critical region
- ▶ Critical section

Question No: 10 (Marks: 1) - Please choose one

Progress and Bounded Waiting are some of the characteristics to solve the critical section problems.

- ▶ **True (Page 101)**
- ▶ False

Question No: 11 (Marks: 1) - Please choose one

In -----addressing; the recipient is not required to name the sender.

- ▶ Symmetric
- ▶ **Asymmetric (Page 47) rep**
- ▶ Both symmetric and asymmetric
- ▶ None of the given options

اللہ کا خوف سب سے بڑی دانائی ہے

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Question No: 12 (Marks: 1) - Please choose one

The execution of critical sections must NOT be mutually exclusive

- ▶ True
- ▶ **False (Page 100)**

Question No: 13 (Marks: 1) - Please choose one

A program in execution is called a _____.

- ▶ Command
- ▶ **Process (Page 31)**
- ▶ Software
- ▶ Compiler

Question No: 14 (Marks: 1) - Please choose one

The critical section problem can be solved by the following except

- ▶ Software based solution
- ▶ **Firmware based solution (Page 101)**
- ▶ Operating system based solution
- ▶ Hardware based solution

Question No: 15 (Marks: 1) - Please choose one

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

- ▶ User interface
- ▶ **Hardware (Page 21)**
- ▶ Kernel
- ▶ None of the given options

Question No: 16 (Marks: 1) - Please choose one

The manual pages can be read in Linux using ____ command.

- ▶ **man (Page 27)**
- ▶ wan
- ▶ desc
- ▶ help

ایماندار کو غصہ دیر سے آتا ہے اور جلدی دور ہو جاتا ہے

MIDTERM EXAMINATION
Spring 2010
CS604 - Operating System

Question No: 1 (Marks: 1) - Please choose one

The hardware mechanism that enables a device to notify CPU is called an -----

- ▶ **Interrupt** [click here for detail](#)
- ▶ Signal
- ▶ Trap
- ▶ Process

Question No: 2 (Marks: 1) - Please choose one

You can display the contents (names of files and directories) of a directory in UNIX/Linux directory structure with the ----- command.

- ▶ ll
- ▶ s
- ▶ **ls (Page 28)**
- ▶ none of the given options

Question No: 3 (Marks: 1) - Please choose one

The ----- system call suspends the calling process.

- ▶ fork
- ▶ **wait (Page 42)**
- ▶ exec
- ▶ exit

Question No: 4 (Marks: 1) - Please choose one

In -----addressing, the recipient is not required to name the sender.

- ▶ Symmetric
- ▶ **Asymmetric (Page 47) rep**
- ▶ Both symmetric and asymmetric
- ▶ None of the given options

Question No: 5 (Marks: 1) - Please choose one

----- command gives a snapshot of the current processes.

- ▶ **ps (Page 66) rep**
- ▶ top
- ▶ who
- ▶ ls

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Question No: 6 (Marks: 1) - Please choose one

-----command to resume the execution of a suspended job in the foreground

- ▶ **fg (Page 68) rep**
- ▶ bg
- ▶ jobs
- ▶ kill

Question No: 7 (Marks: 1) - Please choose one

You can use the ----- command to display the status of suspended and background processes

- ▶ fg
- ▶ bg
- ▶ **jobs (Page 68)**
- ▶ kill

Question No: 8 (Marks: 1) - Please choose one

You can terminate a foreground process by pressing -----

- ▶ <Ctrl-A>
- ▶ **<Ctrl-C> (Page 69)**
- ▶ <Ctrl-Z>
- ▶ None of the given options

Question No: 9 (Marks: 1) - Please choose one

A time sharing system is

- ▶ Multi tasking
- ▶ Interactive
- ▶ Multi user
- ▶ **All of these (Page 9)**

Question No: 10 (Marks: 1) - Please choose one

The main characteristic of a Real time system is

- ▶ Efficiency
- ▶ Large Virtual Memory
- ▶ Large secondary storage device
- ▶ **Usability [click here for detail](#)**

Question No: 11 (Marks: 1) - Please choose one

Shared libraries and kernel modules are stored in directory

- ▶ /bin
- ▶ /dev
- ▶ /boot
- ▶ **/lib (Page 26)**

Question No: 12 (Marks: 1) - Please choose one

_____scheduler selects the process from the job pool and put them in main memory.

▶ **Long term (Page 36)**

- ▶ Short term
- ▶ Medium term
- ▶ Swapper

Question No: 13 (Marks: 1) - Please choose one

In indirect inter process communication, a sender_____mention the name of the recipient.

- ▶ do
- ▶ **do not (Page 47)**

Question No: 14 (Marks: 1) - Please choose one

A_____ is an integer variable that, apart from initialization is accessible only through two standard atomic operations: wait and signal.

▶ **Semaphore (Page 111)**

- ▶ Monitor
- ▶ Critical region
- ▶ Critical section

Question No: 15 (Marks: 1) - Please choose one

A semaphore that cause Busy-Waiting is termed as .

▶ **Spinlock (Page 112)**

- ▶ Monitor
- ▶ Critical region
- ▶ Critical section

Question No: 16 (Marks: 1) - Please choose one

The execution of critical sections must NOT be mutually exclusive

- ▶ True
- ▶ **False (Page 100) rep**

Question No: 17 (Marks: 1) - Please choose one

The performance of Round Robin algorithm does NOT depends heavily on the size of the time quantum.

- ▶ **True (Page 89)**
- ▶ False

دنیا کی سب سے بڑی فتح نفس پر قابو رکھنا ہے

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Question No: 18 (Marks: 1) - Please choose one

The following requirement for solving critical section problem is known as _____. “There exists a bound on the number of times that other processes are allowed to enter their critical sections after a process has made a request to enter its critical section and before that request is granted.”

- ▶ Progress
- ▶ **Bounded Waiting (Page 101)**
- ▶ Mutual Exclusion
- ▶ Critical Region

Question No: 19 (Marks: 1) - Please choose one

The critical section problem can be solved by the following except

- ▶ Software based solution
- ▶ **Firmware based solution (Page 101) rep**
- ▶ Operating system based solution
- ▶ Hardware based solution

Question No: 20 (Marks: 1) - Please choose one

_____ is also called Swapper.

- ▶ Swap space
- ▶ **Medium term scheduler (Page 37)**
- ▶ Short term scheduler
- ▶ Long term scheduler

MIDTERM EXAMINATION
Spring 2010
CS604 - Operating System

Question No: 1 (Marks: 1) - Please choose one

Linux OS can support multiple users at a time

- ▶ **True (Page 9)**
- ▶ False

جھوٹ انسان اور ایمان دونوں کا دشمن ہے

Question No: 2 (Marks: 1) - Please choose one

The Operating system is a layer of software between _____ and _____.

▶ **hardware, software application (Page 21)**

- ▶ Kernel, hardware
- ▶ Dos, Windows
- ▶ Windows, Kernel

Question No: 3 (Marks: 1) - Please choose one

The major advantage of multi-programming system is

- ▶ More than one jobs can be processed at a given time
- ▶ **CPU utilization can be increased (Page 8)**
- ▶ Jobs can be completed quickly
- ▶ All of the options are correct

Question No: 4 (Marks: 1) - Please choose one

The main characteristic of a Real time system is

- ▶ Efficiency
- ▶ Large Virtual Memory
- ▶ Large secondary storage device
- ▶ **Usability** [click here for detail](#) rep

Question No: 5 (Marks: 1) - Please choose one

Command-line interpreter is also called _____ in some operating systems.

- ▶ Kernel
- ▶ **Shell (Page 16)**
- ▶ Signal
- ▶ API

Question No: 6 (Marks: 1) - Please choose one

I/O instructions are Privileged Instructions.

- ▶ **True (Page 12)**
- ▶ False

Question No: 7 (Marks: 1) - Please choose one

In Linux directory structure, there is _____ root directory.

- ▶ **1 (Page 26)**
- ▶ 2
- ▶ 3
- ▶ 4

عقل مند کہتا ہے میں کچھ نہیں جانتا جبکہ بے وقوف کہتا ہے کہ میں سب کچھ جانتا ہوں

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Question No: 8 (Marks: 1) - Please choose one

Utilities used for system administration (halt, ifconfig, fdisk, etc.) are stored in _____ directory.

- ▶ /dev
- ▶ /boot
- ▶ /lib
- ▶ **/sbin (Page 27)**

Question No: 9 (Marks: 1) - Please choose one

rm and [r]mkdir commands are used to _____ directory.

- ▶ Create
- ▶ Move
- ▶ **Remove (Page 30)**
- ▶ Modify

Question No: 10 (Marks: 1) - Please choose one

You can use the mv file1 file2 command to move _____

- ▶ **file1 to file2. (Page 30)**
- ▶ file 2 to file 1
- ▶ this command will not work for moving files
- ▶ None of the option is correct.
- ▶ Both option a and b are correct

Question No: 11 (Marks: 1) - Please choose one

Taking the CPU from one process and giving the CPU to another process is termed as

- ▶ **Context Switching [click here for detail](#)**
- ▶ Dispatching
- ▶ Swapping
- ▶ Tracking

Question No: 12 (Marks: 1) - Please choose one

A Process that has finished working, as well as its parent process has also finished its execution. In this state the process A will be called as _____ process.

- ▶ **Child**
- ▶ Thread
- ▶ Zombie
- ▶ Fork

جو لوگوں کے سامنے فخر کرتا ہے وہ لوگوں کی نظروں سے گر جاتا ہے

Question No: 13 (Marks: 1) - Please choose one

Bounded Buffer is a buffer of _____ size

- ▶ variable
- ▶ **fixed (Page 44)**

Question No: 14 (Marks: 1) - Please choose one

In _____ communication the process which wants to communicate with the other process must explicitly name the recipient and the sender.

- ▶ **Direct (Page 46)**
- ▶ Indirect
- ▶ Automatic
- ▶ Self

Question No: 15 (Marks: 1) - Please choose one

In indirect inter process communication, a sender _____ mention the name of the recipient.

- ▶ does
- ▶ **does not (Page 47) rep**

Question No: 16 (Marks: 1) - Please choose one

The returned code to the child process after successful fork system call execution is

- ▶ 1
- ▶ 2
- ▶ 3
- ▶ **0 (Page 40) rep**

Question No: 17 (Marks: 1) - Please choose one

If the fork system call fails, it returns

- ▶ 1
- ▶ **-1 (Page 40)**
- ▶ 2
- ▶ 0

Question No: 18 (Marks: 1) - Please choose one

When a process opens its first file explicitly it will get descriptor number _____

- ▶ 1
- ▶ 2
- ▶ **3 [click here for detail](#)**
- ▶ 4

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MIDTERM EXAMINATION
Spring 2009
CS604 - Operating System

Question No: 1 (Marks: 1) - Please choose one
1 MB or 1 megabyte is equivalent to----

- ▶ 1024 bytes
- ▶ **1024² bytes** [click here for detail](#)
- ▶ 1024³ bytes
- ▶ 1000000 bytes

Question No: 2 (Marks: 1) - Please choose one
The bottom layer in the layered approach of Operating System is-----

- ▶ Hardware
- ▶ User interface
- ▶ **Hardware (Page 21) rep**
- ▶ Kernel
- ▶ None of the given options

Question No: 3 (Marks: 1) - Please choose one
-----has a hierarchical file system structure.

- ▶ DOS
- ▶ Windows
- ▶ **UNIX (Page 25)**
- ▶ None of the given options

Question No: 4 (Marks: 1) - Please choose one
You can use the -----command in UNIX to create a directory.

- ▶ rmdir
- ▶ **mkdir (Page 29)**
- ▶ cp
- ▶ gcc

بد صورت چہرہ بد صورت دماغ سے بہتر ہے

Question No: 5 (Marks: 1) - Please choose one

Files that start with a ----- in UNIX/Linux directory structure are known as hidden files .

▶ **. (dot) (Page 28)**

- ▶ # (hash)
- ▶ / (slash)
- ▶ ~ (tilt)

Question No: 6 (Marks: 1) - Please choose one

The creating process is called a----- process while the new processes are called the ----- of that process

- ▶ None of the given options
- ▶ Children, parent
- ▶ **Parent, children (Page 38)**
- ▶ Zombie, single

Question No: 7 (Marks: 1) - Please choose one

_____ buffer places no practical limit on the size of the buffer

- ▶ Bounded
- ▶ **Unbounded (Page 44)**
- ▶ Both Unbounded & bounded
- ▶ None of the given options

Question No: 8 (Marks: 1) - Please choose one

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

- ▶ Pipes
- ▶ **BSD Sockets (Page 53)**
- ▶ Named pipe (FIFO)
- ▶ None of the given options

Question No: 9 (Marks: 1) - Please choose one

A_____ is an abstract key for accessing a file.

- ▶ **File descriptor [click here for detail](#)**
- ▶ Input Redirection
- ▶ Output Redirection
- ▶ FIFO

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Question No: 10 (Marks: 1) - Please choose one
----- command gives a snapshot of the current processes.

- ▶ **ps** (Page 66) **rep**
- ▶ top
- ▶ who
- ▶ ls

Question No: 11 (Marks: 1) - Please choose one

You can display all of the signals supported by your system, along with their numbers, by using the ----- command

- ▶ <Ctrl-A>
- ▶ fg
- ▶ jobs
- ▶ **kill -l** (Page 69)

Question No: 12 (Marks: 1) - Please choose one

The time it takes for the dispatcher to stop one process and start another running is known as the-----.

- ▶ **Dispatch latency** (Page 82)
- ▶ Scheduling
- ▶ Context switching
- ▶ None of the given options

Question No: 13 (Marks: 1) - Please choose one

First-Come, First-Served (FCFS) is a -----scheduling algorithm.

- ▶ preemptive
- ▶ **non-preemptive** (Page 83)
- ▶ both preemptive and non- preemptive
- ▶ none of the given options

Question No: 14 (Marks: 1) - Please choose one

The Shortest-Job-First Scheduling algorithm can be

- ▶ Preemptive only
- ▶ non-preemptive only
- ▶ **preemptive or non-preemptive.** (Page 85)
- ▶ None of the given options

جو شخص ناکامیوں سے ڈر کر بھاگتا ہے کامیابی اس سے ڈر کر بھاگتی ہے

Question No: 15 (Marks: 1) - Please choose one

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

- ▶ First-Come-First-Served (FCFS)
- ▶ Round-Robin
- ▶ **Sorted Job First (SJF)** (Page 85)
- ▶ Priority

Question No: 16 (Marks: 1) - Please choose one

The basic purpose of _____ is to help the users to utilize the hardware resources for completing different tasks in a simplified manner

- ▶ **Operating system** (Page 6)
- ▶ Application software
- ▶ All Software
- ▶ All of the given

Question No: 17 (Marks: 1) - Please choose one

OS helps manages the following except

- ▶ Application software
- ▶ **Bus speed of the system** [Click here for detail](#)
- ▶ Memory
- ▶ Virtual memory

Question No: 18 (Marks: 1) - Please choose one

_____ scheduler selects the process from the job pool and put them in main memory.

- ▶ **Long term** (Page 36) rep
- ▶ Short term
- ▶ Medium term
- ▶ Swapper

Question No: 19 (Marks: 1) - Please choose one

A parent process calling _____ system call will be suspended until children process terminates.

- ▶ **wait** [click here for detail](#)
- ▶ fork
- ▶ exit
- ▶ exec

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Question No: 20 (Marks: 1) - Please choose one
n-process critical section problem can be solved by using

▶ **The bakery algorithm** (Page 105)

▶ Deterministic modeling

▶ Analytic evaluation

▶ None of above

بہترین تجربہ وہ ہے جس سے نصیحت حاصل ہو

CS604 - Operating System Solved Quizzes (1 and 2)

Quiz No.1 Dated Dec 04, 2012

Question No: 1 of 10 (Marks: 1) - Please choose one

_____ is a piece of code in a cooperating process in which the process may updates shared data (variable, file, database, etc.).

- ▶ Critical analysis
- ▶ **Critical section (Page 100)**
- ▶ Critical path
- ▶ Critical code

Question No: 2 of 10 (Marks: 1) - Please choose one

Round Robin algorithm is similar to _____ scheduling but preemption is added to switch between processes.

- ▶ Shortest job first
- ▶ Shortest Remaining Time First
- ▶ **First Come First Server (Page 88)**
- ▶ None of these

Question No: 3 of 10 (Marks: 1) - Please choose one

DOS is single user operating system.

- ▶ **True (Page 7)**
- ▶ False

Question No: 4 of 10 (Marks: 1) - Please choose one

A process is said to be in critical section if it executes code that manipulates shared data

- ▶ **True (Page 100)**
- ▶ False

Question No: 5 of 10 (Marks: 1) - Please choose one

When process opens its first file explicitly it will get descriptor number _____

- ▶ 1
- ▶ 2
- ▶ **3 [Click here for detail](#)**
- ▶ 4

خوبصورتی علم و ادب سے ہوتی ہے لباس و حسن سے نہیں

Question No: 6 of 10 (Marks: 1) - Please choose one

A major problem with priority scheduling algorithms is _____.

- ▶ Deadlock
- ▶ Aging
- ▶ **Starvation (Page 86)**
- ▶ None of the these

Question No: 7 of 10 (Marks: 1) - Please choose one

All threads within a process share the _____ address space.

- ▶ Same
- ▶ **Different (Page 71)**

Question No: 8 of 10 (Marks: 1) - Please choose one

_____ displays information about the top processes.

- ▶ Is
- ▶ Cs
- ▶ **Top (Page 67)**
- ▶ Cd

Question No: 9 of 10 (Marks: 1) - Please choose one

The scheduling of _____ are done by the operating system.

- ▶ **Kernel threads (Page 73)**
- ▶ User level threads
- ▶ Both kernel and user level thread
- ▶ None of the give option

Question No: 10 of 10 (Marks: 1) - Please choose one

In Unix/ Linux, by default the standard output file is attached to the _____

- ▶ File
- ▶ **Screen (Page 59)**
- ▶ Printer
- ▶ Scanner

Question No: 1 of 10 (Marks: 1) - Please choose one

POSIX is a standard developed by ANSI

- ▶ IEEE (not sure)
- ▶ **ISO**
- ▶ ACM

تم اچھا کرو زمانہ تم کو برا سمجھے یہ اس سے بہتر ہے کہ تم برا کرو اور زمانہ تم کو اچھا سمجھے

Question No: 2 of 10 (Marks: 1) - Please choose one

_____ is the basis of queuing theory which is branch of mathematics used to analyze systems involving queues and servers.

▶ **Little's Formula (Page 96)**

- ▶ Deterministic modeling
- ▶ Queuing Theory
- ▶ Queuing Analysis

Question No: 3 of 10 (Marks: 1) - Please choose one

_____ is a solution to the problem of indefinite blockage of low-priority processes.

- ▶ Starvation
- ▶ Deadlock
- ▶ **Aging (Page 87)**
- ▶ None of the these

Question No: 4 of 10 (Marks: 1) - Please choose one

The priority of a process can be changed using _____ command.

▶ **nice (Page 94)**

- ▶ cmd
- ▶ Cat
- ▶ grep

Question No: 5 of 10 (Marks: 1) - Please choose one

Batch programs are usually _____ programs.

- ▶ Interactive
- ▶ **Non-interactive [click here for detail](#)**
- ▶ Foreground
- ▶ Preemptive

Question No: 6 of 10 (Marks: 1) - Please choose one

A process consists of _____

- ▶ One or more threads
- ▶ Code
- ▶ Data
- ▶ **All of the given [click here for detail](#)**

Question No: 7 of 10 (Marks: 1) - Please choose one

/usr/X11R6 is used by the X Window System.

- ▶ **True (Page 27)**
- ▶ False

Question No: 8 of 10 (Marks: 1) - Please choose one
command displays the contents of current working directory.

- ▶ **Is (Page 28)**
- ▶ Cs
- ▶ Mv

Question No: 9 of 10 (Marks: 1) - Please choose one
Linux uses _____ directory to store system configuration files.

- ▶ /bin
- ▶ /dev
- ▶ /boot
- ▶ **/etc (Page 26)**

Question No: 10 of 10 (Marks: 1) - Please choose one
User mode can run the Privileged instructions.

- ▶ **1 (Page 11)**
- ▶ 0

Question No: 1 of 10 (Marks: 1) - Please choose one
If your processor does not have two slots empty in Per Process File Descriptor Table, then your _____ system call will fail.

- ▶ **Pipe (Page 55)**
- ▶ read
- ▶ write
- ▶ open

Question No: 2 of 10 (Marks: 1) - Please choose one
First _____ entries in Per Process File Descriptor Table are used as soon as the process is created.

- ▶ 1
- ▶ 2
- ▶ 3
- ▶ **4 (Page 54)**

Question No: 3 of 10 (Marks: 1) - Please choose one
The number of processes completed per unit time is called _____.

- ▶ Turn around time
- ▶ **Throughput (Page 83)**
- ▶ Response time
- ▶ Dispatch latency

Question No: 4 of 10 (Marks: 1) - Please choose one

The procedure “The time at which the process finished working MINUS the arrival time of the process MINUS CPU burst for that process” will help calculate the _____.

- ▶ on-preemptive Shortest Job First scheduling.
- ▶ **Preemptive Shortest Job First scheduling. (Page 85)**
- ▶ FCFS
- ▶ RR Scheduling

Question No: 5 of 10 (Marks: 1) - Please choose one

/opt is used for storage of large applications.

- ▶ **True (Page 27)**
- ▶ False

Question No: 6 of 10 (Marks: 1) - Please choose one

_____ is a virtual directory in Linux and Unix.

- ▶ **/proc (Page 27)**
- ▶ /temp
- ▶ /ver
- ▶ /boot

Question No: 7 of 10 (Marks: 1) - Please choose one

The Home Directory for superuser in Linux and Unix is

- ▶ /home
- ▶ **/root (Page 27)**
- ▶ None of the given

Question No: 8 of 10 (Marks: 1) - Please choose one

Linux Treats Devices as Files.

- ▶ **True (Page 26)**
- ▶ False

Question No: 9 of 10 (Marks: 1) - Please choose one

An absolute pathname starts with the root directory (/) and a relative pathname starts with your home directory.

- ▶ **True (Page 25)**
- ▶ False

Question No: 10 of 10 (Marks: 1) - Please choose one

A pathname is the list of directories separated by _____.

- ▶ #
- ▶ \$
- ▶ &
- ▶ **/ (Page 25)**

Question No: 1 of 10 (Marks: 1) - Please choose one

_____ determines How to do something.

▶ **Mechanism (Page 24)**

- ▶ Policy
- ▶ Mechanism and Policy:
- ▶ None of the given

Question No: 2 of 10 (Marks: 1) - Please choose one

User Goal of OS is that It easy to use, reliable, safe and fast.

▶ **True (Page 24)**

- ▶ False

Question No: 3 of 10 (Marks: 1) - Please choose one

We can install and run multiple OS by using VMWare.

▶ **True [click here for detail](#)**

- ▶ False

Question No: 4 of 10 (Marks: 1) - Please choose one

Mach, MacOS X Server, QNX, OS/2 and Windows NT are examples of OS Based on _____.

- ▶ Layered
- ▶ **Micro Kernal (Page 22)**
- ▶ Virtual Machine
- ▶ None of The Given

Question No: 5 of 10 (Marks: 1) - Please choose one

In Layered Approach of OS, the Layer highest Layer is User Interface layer.

▶ **True (Page 21)**

- ▶ False

Question No: 6 of 10 (Marks: 1) - Please choose one

In Layered approach of OS, Lowest Layer is known as _____.

- ▶ Software Layer
- ▶ **Hardware Layer (Page 21)**
- ▶ Lower Level Layer
- ▶ None of The Given

Question No: 7 of 10 (Marks: 1) - Please choose one

Operating System is the Manager of Hardware Resources.

▶ **True (Page 6)**

- ▶ False

Question No: 8 of 10 (Marks: 1) - Please choose one

An operating system is a control program that manages the execution of user programs to prevent errors and improper use of a computer.

▶ **True (Page 6)**

▶ False

Question No: 9 of 10 (Marks: 1) - Please choose one

The bottom-up view is that operating system is a resource manager who manages the hardware and software resources in the computer system.

▶ **True (Page 6)**

▶ False

Question No: 10 of 10 (Marks: 1) - Please choose one

_____ determines What will be done.

▶ Mechanism

▶ **Policy (Page 24)**

▶ Mechanism and Policy

▶ None of the given

Question No: 1 of 10 (Marks: 1) - Please choose one

copy file1 file2 is an example of _____ OS view.

▶ **Top down (Page 6)**

▶ Bottum Up

Question No: 2 of 10 (Marks: 1) - Please choose one

The Top-down view is that it is a program that acts as an intermediary between a user of a computer and the computer hardware, and makes the computer system convenient to use.

▶ **True (Page 6)**

▶ False

Question No: 3 of 10 (Marks: 1) - Please choose one

Managing Secondary Storage Involves all of the Following except

▶ Allocating storage space

▶ Deallocating Storage

▶ **Prevent Overwriting (Page 5)**

▶ Insure integrity of shared data

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Question No: 4 of 10 (Marks: 1) - Please choose one

The Purpose of Operating System is to generate Executable Programs and to _____ them.

- ▶ Regenstrate
- ▶ **Execute (Page 5)**
- ▶ Store
- ▶ Remove

Question No: 5 of 10 (Marks: 1) - Please choose one

Users are the People, machines or computers that uses the Hardware resources.

- ▶ **True (Page 4)**
- ▶ False

Question No: 6 of 10 (Marks: 1) - Please choose one

Database, Compiler, Video games are examples of _____.

- ▶ Hardware
- ▶ **Application (Page 4)**
- ▶ Operating System
- ▶ Users

Question No: 7 of 10 (Marks: 1) - Please choose one

Which of the Following is not an Operating System.

- ▶ Linux
- ▶ Unix
- ▶ Windows Xp
- ▶ **Database (Page 7)**

Question No: 8 of 10 (Marks: 1) - Please choose one

Operating system enables the user to use the Hardware Resources.

- ▶ **True (Page 4)**
- ▶ False

Question No: 9 of 10 (Marks: 1) - Please choose one

Which of the following is NOT a Hardware Resource.

- ▶ CPU
- ▶ **OS (Page 4)**
- ▶ I/O Devices
- ▶ Memory

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Question No: 10 of 10 (Marks: 1) - Please choose one

Hardware provide basic computing resource.

- ▶ **True (Page 4)**
- ▶ False

Question No: 1 of 10 (Marks: 1) - Please choose one

_____ is a preemptive scheduling algorithm.

- ▶ First Come First Serve
- ▶ Shortest Job First
- ▶ **Round Robin (Page 89)**
- ▶ None of these

Question No: 2 of 10 (Marks: 1) - Please choose one

The priorities of processes in the _____ group remain fixed.

- ▶ **Kernel (Page 93)**
- ▶ User

Question No: 3 of 10 (Marks: 1) - Please choose one

The process of switching from one process to another is called latency.

- ▶ True
- ▶ **False (Page 34)**

Question No: 4 of 10 (Marks: 1) - Please choose one

In Unix/ Linux, by default the standard input file is attached to the _____

- ▶ Mouse
- ▶ **Keyboard (Page 55)**
- ▶ Light pen
- ▶ Joystick

Question No: 5 of 10 (Marks: 1) - Please choose one

The nice value helps in assigning _____ to a process.

- ▶ **Priority (Page 94)**
- ▶ Weight
- ▶ Time
- ▶ Scheduling

Question No: 10 of 10 (Marks: 1) - Please choose one

_____ integer shows the highest priority of a process in CPU scheduling

- ▶ **Small (Page 86)**
- ▶ Large

Quiz No.2

Question No: 1 of 10 (Marks: 1) - Please choose one

If a system is not in a safe state, there can be No deadlocks.

- ▶ True
- ▶ **False (Page 137)**

Question No: 1 of 10 (Marks: 1) - Please choose one

A dashed line is used to represent a _____ in Resource Allocation Graph.

- ▶ **Claim edge (Page 138)**
- ▶ Request edge
- ▶ Assignment edge
- ▶ Allocation edge

Question No: 1 of 10 (Marks: 1) - Please choose one

The process of holding at least one resource and waiting to acquire additional resources that are currently being held by other processes is known as_____.

- ▶ Mutual exclusion
- ▶ **Hold and wait (Page 131)**
- ▶ No preemption
- ▶ Circular wait

Question No: 1 of 10 (Marks: 1) - Please choose one

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.

- ▶ **Claim edge (Page 138)**
- ▶ Request edge
- ▶ Assignment edge
- ▶ Allocation edge

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Question No: 1 of 10 (Marks: 1) - Please choose one

If the system can allocate resources to each process in some order and still avoid a deadlock then it said to be in _____ state.

▶ **Safe (Page 137)**

- ▶ Unsafe
- ▶ Mutual
- ▶ Starvation

Question No: 1 of 10 (Marks: 1) - Please choose one

A condition where a set of blocked processes each holding a resource and waiting to acquire a resource held by another process in the set is termed as _____.

▶ **Deadlock (Page 130)**

- ▶ Starvation

Question No: 1 of 10 (Marks: 1) - Please choose one

The following is NOT a classical problem of synchronization

- ▶ Bounded buffer problem
- ▶ Reader writer problem
- ▶ Dining philosopher's problem
- ▶ **Counting semaphore problem (Page 118)**

Question No: 1 of 10 (Marks: 1) - Please choose one

The integer value of _____semaphores can range over an unrestricted integer domain.

▶ **Counting (Page 117)**

- ▶ Binary
- ▶ Mutex
- ▶ Bounded buffer

Question No: 1 of 10 (Marks: 1) - Please choose one

The condition in which a set $\{P_0, P_1 \dots P_n\}$ of waiting processes must exist such that P_0 is waiting for a resource that is held by P_1 , P_1 is waiting for a resource that is held by P_2 , and so on, P_{n-1} is waiting for a resource held by P_n , and P_n is waiting for a resource held by P_0 . This condition is known as _____.

- ▶ Mutual exclusion
- ▶ Hold and wait
- ▶ No preemption
- ▶ **Circular wait (Page 131)**

Question No: 1 of 10 (Marks: 1) - Please choose one

You can use the rm file1 command to _____ file1

- ▶ Retrieve
- ▶ **Remove (Page 30)**
- ▶ Make
- ▶ modify

Question No: 2 of 10 (Marks: 1) - Please choose one

The correct command for compiling C program named program.c in Linux environment is

- ▶ **gcc program.c -o FirstPrgram (Page 31)**
- ▶ gcc -o FirstProgram program.c
- ▶ gcc -z FirstProgram program.c
- ▶ gcc program.c -m FirstPrgram

Question No: 3 of 10 (Marks: 1) - Please choose one

Using _____system, we can create a new process in Linux.

- ▶ **Fork (Page 39)**
- ▶ exec
- ▶ wait
- ▶ exit

Question No: 4 of 10 (Marks: 1) - Please choose one

Cooperating processes never share any data, code, memory or state.

- ▶ True
- ▶ **False (Page 5)**

Question No: 5 of 10 (Marks: 1) - Please choose one

_____ command display the status of a process.

- ▶ ls
- ▶ **ps (Page 66)**
- ▶ gcc
- ▶ cat

Question No: 6 of 10 (Marks: 1) - Please choose one

Swapper is also termed as Short term scheduler.

- ▶ True
- ▶ **False (Page 36)**

افضل انسان وہ ہے جو اپنی اصلاح کی کوشش کرتا ہے

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Question No: 7 of 10 (Marks: 1) - Please choose one

_____ system call is used to write to a file or FIFO or any other IPC channel.

- ▶ read
- ▶ **write (Page 48)**
- ▶ open
- ▶ fork

Question No: 8 of 10 (Marks: 1) - Please choose one

A Process 'A' that has finished working but its parent process has also finished its execution. In this state the process 'A' will be called as _____ process.

- ▶ Child
- ▶ Thread
- ▶ **Zombie (Page 42)**
- ▶ Fork

Question No: 9 of 10 (Marks: 1) - Please choose one

_____ scheduling allows a process to move between queues.

- ▶ Round Robin
- ▶ First Come First Serve
- ▶ **Multilevel Feedback Queue (Page 92)**
- ▶ Shortest Remaining Time First

Question No: 10 of 10 (Marks: 1) - Please choose one

Round Robin algorithm is most suitable for _____.

Time sharing system (Page 88)

Real time systems and batch systems
Running Batch programs
Expert system

Question No: 1 of 10 (Marks: 1) - Please choose one

Kernel is responsible for scheduling the user level threads.

- ▶ True
- ▶ **False (Page 73)**

Question No: 2 of 10 (Marks: 1) - Please choose one

A ----- (or an *exception*) is a software-generated interrupt caused either by an error (division by zero or invalid memory access) or by a user request for an operating system service.

- ▶ Interrupt
- ▶ **Trap (Page 10)**
- ▶ Signal
- ▶ Process

Question No: 3 of 10 (Marks: 1) - Please choose one

Which register holds the smallest legal physical memory address for a process?

▶ **Base register (Page 13)**

- ▶ Limit register
- ▶ Status register
- ▶ None of the given options

Question No: 4 of 10 (Marks: 1) - Please choose one

The -----semaphore provides mutual exclusion for accesses to the buffer pool and is initialized to the value 1.

▶ **mutex (Page 118)**

- ▶ binary
- ▶ counting
- ▶ none of the given options

Question No: 5 of 10 (Marks: 1) - Please choose one

Binary semaphores are those that have only two values-----

- ▶ 0 and n
- ▶ 0 and 0
- ▶ **0 and 1 (Page 117)**
- ▶ None of the given options

Question No: 6 of 10 (Marks: 1) - Please choose one

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

▶ **Frames, pages (Page 165)**

- ▶ Pages, Frames
- ▶ Frames, holes
- ▶ Holes, segments

Question No: 7 of 10 (Marks: 1) - Please choose one

A page table needed for keeping track of pages of the page table is called -----

- ▶ 2-level paging
- ▶ **Page directory (Page 173)**
- ▶ Page size
- ▶ Page table size

Question No: 8 of 10 (Marks: 1) - Please choose one

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*.

▶ **Virtual, physical [click here for detail](#)**

- ▶ Hexadecimal, Binary,
- ▶ Valid, invalid
- ▶ Physical, Virtual

Question No: 9 of 10 (Marks: 1) - Please choose one

Each page is a power of ----- bytes long in paging scheme.

- ▶ 2
- ▶ 3
- ▶ 4 (Page 167)
- ▶ 5

Question No: 10 of 10 (Marks: 1) - Please choose one

Which part of the computer system helps in managing the file and memory management system?

- ▶ Operating System (Page 5)
- ▶ Device Drivers
- ▶ Application Software
- ▶ Hardware

Question No: 1 of 10 (Marks: 1) - Please choose one

Which of the following is correct definition for wait operation?

- ▶ wait(S) { (Page 111)

```
while(S<=0)
```

```
;// no o
```

```
S--;
```

```
}
```

- ▶ wait(S) {

```
S++;
```

```
}
```

- ▶ wait(S) {

```
while(S>=0)
```

```
;// no op
```

```
S--;
```

```
}
```

- ▶ wait(S) {

```
S--;
```

```
}
```

Question No: 3 of 10 (Marks: 1) - Please choose one

In deadlock detection and recovery algorithm, a deadlock exists in the system if and only if the wait for graph contains a

- ▶ Cycle (Page 147)
- ▶ Graph
- ▶ Edge
- ▶ Node

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Question No: 4 of 10 (Marks: 1) - Please choose one

----- register contains the size of the process

- ▶ Base register
- ▶ Index register
- ▶ **Limit register (Page 13)**
- ▶ Stack pointers register

Question No: 5 of 10 (Marks: 1) - Please choose one

The -----scheme is not applicable to a resource allocation system with multiple instances of each resource type.

- ▶ **Wait for graph (Page 148)**
- ▶ Resource allocation graph
- ▶ Both Resource-allocation and wait-for graph
- ▶ None of the given options

Question No: 6 of 10 (Marks: 1) - Please choose one

_____ algorithm is used in Deadlock avoidance.

- ▶ Bakery
- ▶ **Banker's (Page 139)**
- ▶ Mutual exclusion
- ▶ Safe Sequence

Question No: 7 of 10 (Marks: 1) - Please choose one

What do we name to an address that is loaded into the memory-address register of the memory?

- ▶ Logical address
- ▶ **Physical address (Page 155)**
- ▶ Binary addresses
- ▶ None of the given options

Question No: 8 of 10 (Marks: 1) - Please choose one

Cache is non-volatile memory.

- ▶ True
- ▶ **False (Page 153)**

Question No: 9 of 10 (Marks: 1) - Please choose one

A system call_____

- ▶ **Is an entry point into the kernel code (Page 18)**
- ▶ Allows a program to request a kernel service
- ▶ Is a technique to protect I/O devices and other system resources
- ▶ All of the these

Question No: 10 of 10 (Marks: 1) - Please choose one

The condition where a set of blocked processes each holding a resource and waiting to acquire a resource held by another process in the set, is termed as _____.

- ▶ **Deadlock (Page 130)**
- ▶ Starvation

Question No: 1 of 10 (Marks: 1) - Please choose one

Banker's algorithm is used for _____

- ▶ **Deadlock avoidance (Page 140)**
- ▶ Deadlock detection
- ▶ Deadlock prevention
- ▶ Deadlock removal

Question No: 2 of 10 (Marks: 1) - Please choose one

The _____ requires that once a writer is ready, that writer performs its write as soon as possible, if a writer waiting to access the object, no new readers may start reading.

- ▶ first readers-writers problem
- ▶ **second readers-writers problem (Page 119)**
- ▶ third readers-writers problem
- ▶ fourth readers-writers problem

Question No: 3 of 10 (Marks: 1) - Please choose one

_____ is an integer variable accessible through wait and signal which are atomic operations.

- ▶ **Semaphore (Page 111)**
- ▶ Mutex
- ▶ Busy waiting
- ▶ Signal

Question No: 4 of 10 (Marks: 1) - Please choose one

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

- ▶ Counting
- ▶ **Binary (Page 117)**
- ▶ Mutex
- ▶ Bounded buffer

Question No: 5 of 10 (Marks: 1) - Please choose one

Starvation is infinite blocking caused due to unavailability of resources.

- ▶ **True (Page 115)**
- ▶ False

Question No: 4 of 10 (Marks: 1) - Please choose one

Operating System provides services such as Managing Primary and Secondary Storage, Processes and Allowing user to manage his/her files and directories.

▶ True (Page 5)

▶ False

Question No: 5 of 10 (Marks: 1) - Please choose one

_____ is used in real time operating systems.

▶ Non-preemptive scheduling [Click here for detail](#)

▶ Preemptive scheduling

▶ Dispatching scheduling

▶ FCFS scheduling

Question No: 1 of 10 (Marks: 1) - Please choose one

Preventing a condition of _____ to happen, deadlocks can be prevented to happen.

▶ Critical region

▶ Circular wait (Page 136)

▶ Monitors

▶ Critical section

اپنی مرضی اور اللہ کی مرضی میں فرق کا نام غم ہے
اس سے پہلے کہ تمہیں شہوتِ فتنے میں ڈالے نکاح کر لو
وہ لوگ مبارک ہیں جو الفاظ سے نصیحت نہیں کرتے بلکہ عمل سے کرتے ہیں

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