FINALTERM EXAMINATION
Spring 2010
CS604- Operating Systems (Session - 4)

Question No: 1 (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 7)**
- Signal
- Process

Question No: 2 (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: 3 (Marks: 1) - Please choose one
The process of switching from one process to another is called ----------

- **context switching (Page 34)**
- scheduling
- quantum period
- latency

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: 4 (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
- couting
- none of the given options

Question No: 5 (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 (Marks: 1) - Please choose one
Addresses generated *relative* to part of program, not to start of physical memory are

- Virtual
- Physical
- **Relocatable** Click here for detail
- Symbolic

Question No: 7 (Marks: 1) - Please choose one
Object files and libraries are combined by a ---------- program to produce the executable binary

- Compiler
- Linker
- Text editor
- **Loader** Click here for detail

Question No: 8 (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

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Question No: 9 (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: 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: 11 (Marks: 1) - Please choose one
Each page is a power of -------- bytes long in paging scheme.

► 2
► 3
► **4 (Page 167)**
► 5

Question No: 12 (Marks: 1) - Please choose one
_____ is a way to establish a connection between the file to be shared and the directory entries of the users who want to have aces to this file.

► **Link (Page 231)**
► Directory
► Common Group
► Access Permission

Question No: 13 (Marks: 1) - Please choose one
When a _____link is created, a directory entry for the existing file is created

► Soft
► **Hard (Page 227)**
► Soft or Hard
► None of the given options

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Question No: 14 (Marks: 1) - Please choose one
The _____ method requires each file to occupy a set of contiguous blocks on the disk.

► **Contiguous Allocation (Page 236)**
► Linked Allocation
► Indexed Allocation
► None of the given options

Question No: 15 (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: 16 (Marks: 1) . - Please choose one
Which of the following is correct definition for wait operation?

► **wait(S) { (Page 111)**
while(S<=0)
;// no op
S--;
}

► wait(S) {
S++;
}

► wait(S) {
while(S>=0)
;// no op
S--;
}

► wait(S) {
S--;
}

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

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Question No: 17 (Marks: 1) - Please choose one
Wrong use of wait and signal operations (in context with semaphores) can cause _____ problem(s).

- ► Mutual Exclusion
- ► Deadlock
- ► Bounded Waiting
- ► **All of the given options are correct**

Question No: 18 (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: 19 (Marks: 1) - Please choose one
If a process continues to fault, replacing pages, for which it then faults and brings back in right away. This high paging activity is called _____.

- ► paging
- ► **thrashing (Page 210)**
- ► page fault
- ► CPU utilization

Question No: 20 (Marks: 1) - Please choose one
In _____ page replace algorithm we will replace the page that has not been used for the longest period of time.

- ► counter based
- ► Least Frequently Used
- ► FIFO
- ► **LRU (Page 202)**

Question No: 21 (Marks: 1) . - Please choose one
Overlays are implemented by the _____

- ► Operating system
- ► **Programmer (Page 159)**
- ► Kernel
- ► Shell

Question No: 22 (Marks: 1) - Please choose one
An acyclic graph does not allow directories to have shared subdirectories and files.

- ► True
- ► **False (Page 225)**

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Question No: 23 (Marks: 1) - Please choose one
The size of pages and frames are same in logical memory and physical memory respectively.

► **True (Page 165)**
► False

Question No: 24 (Marks: 1) - Please choose one
A modification of free-list approach in free space management is to store the addresses of n free blocks in the first free block. Known as _____.

► counting
► linked list
► bit vector
► **grouping (Page 243)**

Question No: 25 (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

Question No: 26 (Marks: 1) - Please choose one
Intel is basically designed for following Operating Systems except _____.

► **MULTICS (Page 182)**
► OS/2
► Windows
► Linux

Question No: 27 (Marks: 1) - Please choose one
Following is NOT true about Virtual memory.

► **Virtual memory help in executing bigger programs even greater in size that of main memory.**
► Virtual memory makes the processes to stuck when the collective size of all the processes becomes greater than the size of main memory.
► Virtual memory also allows files and memory to be shared by several different processes through page sharing.
► Virtual memory makes the task of programming easier because the programmer need not worry about the amount of physical memory,

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Question No: 28 (Marks: 1) - Please choose one
The execution of critical sections must NOT be mutually exclusive

- ► True
- ► **False (Page 100)**

Question No: 29 (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: 30 (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

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Question No: 1 (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.

- ► l
- ► s
- ► **ls (Page 28)**
- ► none of the given options

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Question No: 2 (Marks: 1) - Please choose one
---------- spend more time doing IO than computations

► short CPU bursts
► CPU bound processes
► **IO bound processes (Page 32)**
► None of the given options

Question No: 3 (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: 4 (Marks: 1) - Please choose one
With ----------you use condition variables.

► Semaphores
► Read/Write Locks
► Swaps
► **Monitor (Page 126)**

Question No: 5 (Marks: 1) - Please choose one
Deadlocks can be described more precisely in terms of a directed graph called a system ----------

► Directed graph
► Critical path
► **Resource allocation graph** Click here for detail
► Mixed graph

Question No: 6 (Marks: 1) - Please choose one
The integer value of _____ semaphores can not be greater than 1.

►Counting
►**Binary (Page 117)**
►Mutex
►Bounded buffer

زندگی میں کامیابی کا یہی راز ہے کہ پریشانیوں سے پریشان مت بنو

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Question No: 7 (Marks: 1) - Please choose one
Starvation is infinite blocking caused due to unavailability of resources.

►**True (Page 115)**
►False

Question No: 8 (Marks: 1) - Please choose one
The set of all physical addresses corresponding to the logical addresses is a ---------- of the process

► **Physical address space (Page 155)**
► Process address space
► None of the given options
► Logical address space

Question No: 9 (Marks: 1) - Please choose one
---------- indicates size of the page table

► translation look-aside buffers
► **Page-table length register (PTLR) (Page 169)**
► Page-table base register (PTBR)
► Page offset

Question No: 10 (Marks: 1) - Please choose one
If validation bit is 0, it indicates a/an --------- state of segment.

► protected
► shared
► legal
► **illegal (Page 180)**

Question No: 11 (Marks: 1) - Please choose one
In _____ allocation scheme free frames are equally divided among processes

► **Fixed Allocation (Page 207)**
► Propotional Allocation
► Priority Allocation
► None of the given options

Question No: 12 (Marks: 1) - Please choose one
Progress and Bounded Waiting are some of the characteristics to solve the critical section problems.

► **True (Page 101)**
► False

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Question No: 13 (Marks: 1) - Please choose one
_____ is used to store data on secondary storage device, e.g., a source program(in C), an executable program.

► Block Special File
► Link File
► **Ordinary File (Page 220)**
► Directory

Question No: 14 (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: 15 (Marks: 1) - Please choose one
User mode can run the Privileged instructions

► **True (Page 11)**
► False

Question No: 16 (Marks: 1) - Please choose one
_____ wastes CPU cycles and hence is a problem in real multiprogramming system.

► **Busy waiting (Page 13)**
► Spinlock
► Critical section
► Mutex

Question No: 17 (Marks: 1) - Please choose one
The _____ requires that no reader will be kept waiting unless a writer has already obtained permission to use the shared object.

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

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Question No: 18 (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: 19 (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: 20 (Marks: 1) - Please choose one
Banker's algorithm is used for _____
► **Deadlock avoidance (Page 140)**
► Deadlock detection
► Deadlock prevention
► Deadlock removal

Question No: 21 (Marks: 1) - Please choose one
A program can not execute unless whole or necessary part of it resides in the main memory.
► **True**
► False

Question No: 22 (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: 23 (Marks: 1) - Please choose one
Which command, Display permissions and some other attributes for prog1.c in your current directory?
► **ls –l prog1.c (Page 234)**
► ls –d prog1.c
► ls file prog1.c
► ls –l prog1.c /Directory

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Question No: 24 (Marks: 1) - Please choose one
In the C-Scan and C-Look algorithms, when the disk head reverses its direction, it moves all the way to the other end, without serving any requests, and then reverses again and starts serving requests.

► **True (Page 249)**
► False

Question No: 25 (Marks: 1) - Please choose one
In paged segmentation, we divide every segment in a process into _____pages.

► **Fixed size (Page 182)**
► Variable size

Question No: 26 (Marks: 1) - Please choose one
Intel 80386 used paged segmentation with _____ level paging.
► One
► **Two (Page 185)**
► Three
► Four

Question No: 27 (Marks: 1) - Please choose one
The logical address of Intel 80386 is _____
► 36 bits
► **48 bits (Page 185)**
► 64 bits
► 128 bits

Question No: 28 (Marks: 1) - Please choose one
The Swap instruction which is the hardware solution to synchronization problem does not satisfy the _____ condition, hence not considered to be a good solution.

► Progress
► **Bounded waiting (Page 109)**
► Mutual exclusion
► None of the given

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Question No: 29 (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: 30 (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

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CS604 Solved Quizzes (Final term)

Quiz No.2(19-June-2013)

Question No: 1 of 10 (Marks: 1) - Please choose one
Consider a scenario in which one process P1 enters in its critical section, no other process is allowed to execute in its critical section. This is called ----------

Mutual exclusion Click here for detail
Context switching
Multithreading
Progress

Question No: 1 of 10 (Marks: 1) - Please choose one
Following is not the classical problem of synchronization.

Bounded buffer problem
Reader writer problem
Dining philosophers problem
Counting Semaphore problem (Page 118)

Question No: 1 of 10 (Marks: 1) - Please choose one
Typically monitor, a high level synchronization tool is characterized by _____ and _____.

Global variable,local variable
Signal, wait
Local data, programmer defined operators (Page 125)
Local variables, semaphores

Question No: 1 of 10 (Marks: 1) - Please choose one
The section of code after the critical section is called _____.

Crystal section
Entry section
Remainder section
Exit section

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Question No: 1 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: 1 of 10 (Marks: 1) - Please choose one
In producer-Consumer problem synchronization is required. On which shared area this synchronization actually affect?

Counter
Buffer
Entry section
Exit section

Question No: 1 of 10 (Marks: 1) - Please choose one
Critical section problem can be solved by using how many ways?

4
3 (Page 101)
1
2

Question No: 1 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: 1 of 10 (Marks: 1) - Please choose one
Software solution to critical section problem can run only in environment _____.

Multiprocessor
Multithreading
Uniprocessor
Separate address spacing

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

Question No: 1 of 10 (Marks: 1) - Please choose one
Removing the possibility of deadlock in dining philosopher problem does not ensure the _____ problem will not occur.

Mutual Exclusion
Starvation (Page 123)
Critical Section
Bounded Buffer

Question No: 1 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: 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
_____ is a preemptive scheduling algorithm.

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

Question No: 1 of 10 (Marks: 1) - Please choose one
_____ algorithm is used for solving n-process critical section problem.

►Bankers
►**Bakery (Page 105)**
►Babbles
►None of the given

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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: 1 of 10(Marks: 1) - Please choose one
Using hardware solution to synchronization for complex problems, introduce a new synchronization tool know as _____.

TestAndSet
Semaphore (Page 111)
Swap
Trap

Question No: 1 of 10 (Marks: 1) - Please choose one
Use of semaphore create a problem of busy waiting, this wastes CPU cycles that some other process may be able to use productively. This type of semaphore is also called _____

Semaphore S
Spinlock (Page 112)
Locking Semaphore
Mutex

Question No: 1 of 10 (Marks: 1) - Please choose one
---------- is a segment of code that accesses a shared resource like data structure or device that must not be concurrently accessed by more than one thread of execution.

Multithreading
Context switching
Critical section (Page 105)
Pipelining

Question 1 of 10 (Marks: 1) - Please choose one
Cache is non-volatile memory.

►True
►**False (Page 153)**

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: 1 of 10 (Marks: 1) - Please choose one
While executing the statement c++/c-- in Producer-Consumer problem, at back end certain number of instructions are executed, if interleaving of statements happen, it create race condition. Tell number of instructions that require "no interleaving" while executing c++/c--?

3
1
2
0

Question 1 of 10 (Marks: 1) - Please choose one
The collection of process that is waiting on the disk to be brought into the memory for execution forms the _____

►**Input queue** **(Page 154)**
►Output queue
►Both of the
►None of the above

Question 1 of 10 (Marks: 1) - Please choose one
_____is used due to un-used space in fixed size blocks/ pages.

►**Internal fragmentation** **Click here for detail**
►External fragmentation
►Paging
►MVT

Question 1 of 10 (Marks: 1) - Please choose one
Fragmentation when using ICMP for path MTU should be avoided.

► **True**
►False

Question 1 of 10 (Marks: 1) - Please choose one
Variable name are _____ address.
►Physical
►Reloadable
► Relative
►**Symbolic** Click here for detail

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خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا

Question 1 of 10 (Marks: 1) - Please choose one
Secondary storage memory devices have ____ memory.

►Volatile
►**Permanent and non volatile** Click here for detail
►Temporary
►None of the

Question 1 of 10 (Marks: 1) - Please choose one
_____is caused due to un-used in physical memory.

►**Internal fragmentation** Click here for detail
►External fragmentation
►Paging
►MVT

Question 1 of 10 (Marks: 1) - Please choose one
The run-time mapping from virtual to physical address is done by a piece of hardware in the CPU, called the _____

►**Memory management unit (MMU)** **(Page 155)**
►CPU scheduler
►Registers
►None of the above

Question 1 of 10 (Marks: 1) - Please choose one
Main memory is _____ memory.

►**Volatile memory** Click here for detail
►Non-volatile
►Permanent
►Virtual

Question 1 of 10 (Marks: 1) - Please choose one
What do we name to an address that is generated by CPU?

►**Logical address** **(Page 152)**
►Physical address
►Binary address
►None of the above

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

Question 1 of 10 (Marks: 1) - Please choose one
Address Binding will be at _____ in multiprogramming with fixed tasks (MFT)
►Rub time
►**Load time (Page 160)**
►Dynamic time
►None of the

Question 1 of 10 (Marks: 1) - Please choose one
In ____ technique, memory is divided into several fixed-size partitions.

►Swapping
►Overlays
►**Multiprogramming with fixed tasks (MFT) (Page 159)**
►Multiprogramming with fixed tasks (MFT)

Question 1 of 10 (Marks: 1) - Please choose one
_____is used in the detection and recovery mechanism to handle deadlocks.

►**Wait-for graph (Page 144)**
►Resource allocation graph
►Circular graph
►Claim edge graph

Question 1 of 10 (Marks: 1) - Please choose one
An optimal page-replacement algorithm has the lowest page fault rate of all algorithms.

►**True (Page 199)**
►False

Question 1 of 10 (Marks: 1) - Please choose one
_____ Point to the page table.

►Translation look-aside buffers
►Page offset
►Page-table length registers (PRLR)
►**Page-table base registers (PTBR) (Page 166)**

Question 1 of 10 (Marks: 1) - Please choose one
The segment table maps the _____ the physical addresses.
►Page addresses

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►Shared page addresses
►One-dimensional logical addresses
►**Two-dimensional logical addresses (Page 175)**

Question 1 of 10 (Marks: 1) - Please choose one
Segmentation is a memory management scheme that support_____?

►**Programmer's view of memory (Page 175)**
►System's view of memory
►Hardware's view of memory
►None of the given

Question 1 of 10 (Marks: 1) - Please choose one
The pager is used in connection with _____.

►**Demand paging (Page 186)**
►Paging
►Segmentation
►Page segmentation

Question 1 of 10 (Marks: 1) - Please choose one
When the process tries to access locations that are not in memory, the hard traps the operating system. This is called as_____.

►**Page fault (Page 188)**
►Page replacement
►Paging
►Segmentation

Question 1 of 10 (Marks: 1) - Please choose one
The main criteria of page replacement in optimal page replacement algorithm is to_____

►**Replacement that page will not be use for the longest period of time (Page 199)**
►Replacement that page will be required most frequently in the execution of process
►Replace the page which is biggest in size.

Question 1 of 10 (Marks: 1) - Please choose one
----------refers to the situation when free memory space exists to load a process in the memory but the space is not contiguous.

►Segmentation
►Internal fragmentation
►Swapping
►**External Fragmentation (Page 165)**

Question 1 of 10 (Marks: 1) - Please choose one
_____ algorithm is used in Deadlock avoidance.

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

Question 1 of 10 (Marks: 1) - Please choose one
----------keep in memory only those instructions and data that are needed at any given time.

►Fragmentation
►Paging
►Swapping
►**Overlays (Page 156)**

Question 1 of 10 (Marks: 1) - Please choose one
In_____, the library files are linked at load time.

►**Static linking** Click here for detail
►Dynamic linking

Question 1 of 10 (Marks: 1) - Please choose one
In swapping technique of Memory Management, the total amount transfer is directly proportional to the _____

►**amount of the memory swapped** **Click here for detail**
►amount of space on backing store
►space on main memory
►all the given options are correct

Question 1 of 10 (Marks: 1) - Please choose one
When the address used in a program gets converted to an actual physical RAM address, it is called ----------

►Execution
►Loading
►**Address Binding** **Click here for detail**
►Compiling

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عقل مند اپنے عیب خود دیکھتا ہے اور بیوقوفوں کے عیب دنیا دیکھتی ہے

Question 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 is said to be in _____ state.

►**Safe (Page 137)**
►Un-Safe
►Mutual
►Starvation

Question 1 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 1 of 10 (Marks: 1) - Please choose one
In Resource Allocation Graph, a _____Pi --->Rj indicates that process Pi may request resource Rj at some time in the future.

►**Claim edge (Page 138)**
►Request edge
►Assignment edge
►Allocation edge

Question 1 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 1 of 10 (Marks: 1) - Please choose one
The ----- is a single program that produces an object file

►Linker

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►**Compiler** **Click here for detail**
►Loader
►Text editor

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

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 1 of 10 (Marks: 1) - Please choose one
The condition in which a set {P0, P1… Pn} of waiting processes must exist such that P0 is waiting for a resource that is held by P1, P1 is waiting for a resource that is held by P2, and so on, Pn-1 is waiting for a resource held by Pn, and Pn is waiting for a resource held by P0. This condition is known as _____.

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

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: 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: 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: 5 of 10 (Marks: 1) - Please choose one
Starvation is infinite blocking caused due to unavailability of resources.

►**True (Page 115)**
►False

Question 1 of 10 (Marks: 1) - Please choose one
In pages segmentation, the logical address is legal if d is _____segment length.

►**< (less then) (Page 180)**
►>(greater than)
►=(equal to)

Question 1 of 10 (Marks: 1) - Please choose one
In _____ allocation scheme number of frames allocated to a process is proportional to its size .

►**Proportional Allocation (Page 207)**
►Fixed allocation
►Priority allocation
►None of these

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بصورت چہرہ بصورت دماغ سے بہتر ہے

Question No: 1 of 10 (Marks: 1) - Please choose one
In Resource Allocation Graph**,** A _____ Pi →Rj indicates that process Pi may request resource Rj at some time in the future.

►**Claim edge (Page 138)**
►Request edge
►Assignment edge
►Allocation edge

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 1 of 10 (Marks: 1) - Please choose one
In case of thrashing if CPU utilization is too low the operating system _____ the degree of multiprogramming.

►**Increases (Page 207)**
►Decrease

Question 1 of 10 (Marks: 1) - Please choose one
We want a page replacement algorithm with the _____ page-fault rate.

►**Lowest (Page 198)**
►Highest

Question 1 of 10 (Marks: 1) - Please choose one
In a UNIX system,_____ system call can be used to request the operating system to memory map an opened file.

►**mmap() (Page 195)**

Question 1 of 10 (Marks: 1) - Please choose one
The high paging activity is called _____

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►**Thrashing (Page 207)**

Question 1 of 10 (Marks: 1) - Please choose one
The main memory is usually divided into two partitions, one for _____ and other for _____ .

►**resident operating System, User processes (Page 158)**

Question No: 1 of 10 (Marks: 1) - Please choose one
A section of code or collection of operations in which only one process may be executing at a given time, is called critical section. Consider a system containing n processes {P0, P1, 2, ..., Pn }. Each process has a segment of code called a ____

►**N-Process Critical Section Problem Click here for detail**

Question No: 1 of 10 (Marks: 1) - Please choose one
Semaphore S is a/an _____ type of variable to use as synchronization tool.

►**Integer (Page 111)**

Question No: 1 of 10 (Marks: 1) - Please choose one
In order to remove the problem like busy waiting, some high level synchronization constructs are defined. What are they?

►**Critical regions and Monitors (Page 124)**

Question No: 1 of 10 (Marks: 1) - Please choose one
In instruction TestAndSet mutual exclusion implementation is done by declaring a Boolean variable lock _____.

►**Initialized as false (Page 109)**

Question No: 1 of 10 (Marks: 1) - Please choose one
We can use semaphores to deal with the number of _____process critical section problem.

►**n-process critical section problem**

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CS604 – Some More Quizzes

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

Question No: 5 (Marks: 1) - Please choose one
A solution to the critical section problem must satisfy the following requirements

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

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

Question No: 11 (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: 12 (Marks: 1) - Please choose one
Current working directory can be accessed using --------- Command.

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

Question No: 13 (Marks: 1) - Please choose one
Mkfifo() is a _____.

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

Question No: 14 (Marks: 1) - Please choose one
____ command gives a snapshot of the current processes.

► **ps (Page 66)**
► top
► who
► ls

Question No: 15 (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

Question No: 16 (Marks: 1) - Please choose one
_____ directory includes essential system boot files including the kernel image.
► /bin
► **/boot (Page 26)**
► /dev
► /etc

Question No: 17 (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: 18 (Marks: 1) - Please choose one
A program in execution is called a _____.

► Command
► **Process (Page 31)**
► Software
► Compiler

Question No: 19 (Marks: 1) - Please choose one
The manual pages can be read in Linux using ____ command.

► **man (Page 27)**
► wan
► desc
► help

Question No: 20 (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: 21 (Marks: 1) - Please choose one
The ---------- system call suspends the calling process.

► fork
► **wait (Page 42)**
► exec
► exit

Question No: 22 (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: 23 (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: 24 (Marks: 1) - Please choose one
A time sharing system is
► Multi tasking
► Interactive
► Multi user
► **All of these (Page 9)**

Question No: 25 (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: 26 (Marks: 1) - Please choose one
Shared libraries and kernel modules are stored in directory
► /bin
► /dev
► /boot
► **/lib (Page 26)**

Question No: 27 (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: 28 (Marks: 1) - Please choose one

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In indirect inter process communication, a sender_____mention the name of the recipient.
► do
► **do not (Page 47)**

Question No: 29 (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

Question No: 30 (Marks: 1) - Please choose one
_____ is also called Swapper.

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

Question No: 31 (Marks: 1) - Please choose one
Linux OS can support multiple users at a time

►**True (Page 9)**
►False

Question No: 32 (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: 33 (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: 34 (Marks: 1) - Please choose one
Command-line interpreter is also called _____ in some operating systems.

►Kernel
►**Shell (Page 16)**
►Signal
►API

Question No: 35 (Marks: 1) - Please choose one
I/O instructions are Privileged Instructions.
►**True (Page 12)**
►False

Question No: 36 (Marks: 1) - Please choose one
In Linux directory structure, there is _____ root directory.
►**1 (Page 26)**
►2
►3
►4

Question No: 37 (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: 38 (Marks: 1) - Please choose one
rm and [r]mkdir commands are used to _____ directory.

►Create
►Move
►**Remove (Page 30)**
►Modify

Question No: 39 (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: 40 (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: 41 (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

Question No: 42 (Marks: 1) - Please choose one
Bounded Buffer is a buffer of _____ size
►variable
►**fixed (Page 44)**

Question No: 43 (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: 44 (Marks: 1) - Please choose one
If the fork system call fails, it returns
►1
►**-1 (Page 40)**
►2
►0

Question No: 45 (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

Question No: 46(Marks: 1) - Please choose one

I MB or 1 megabyte is equivalent to----
►1024 bytes
►**1024^2 bytes** click here for detail
►1024^3 bytes
►1000000 bytes

Question No: 47 (Marks: 1) - Please choose one
----------has a hierarchical file system structure.

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

Question No: 48 (Marks: 1) - Please choose one
You can use the ---------command in UNIX to create a directory.

►rmdir
►**mkdir (Page 29)**
►cp
►gcc

Question No: 49 (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: 50 (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: 51 (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: 52 (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

Question No: 53 (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: 54 (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: 55 (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: 56 (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

بہترین تجربہ وہ ہے جس سے نصیحت حاصل ہو

Question No: 57 (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: 58 (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: 59 (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

Question No: 60 (Marks: 1) - Please choose one
n-process critical section problem can be solved by using

►**The bakery algorithm (Page 105)**
►Deterministing modeling
►Analytic evaluation
►None of above

Question No: 61 (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

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►Critical code

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

Question No: 62 (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: 63 (Marks: 1) - Please choose one
DOS is single user operating system.

►**True (Page 7)**
►False

Question No: 64 (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

Question No: 65 (Marks: 1) - Please choose one
A major problem with priority scheduling algorithms is _____.

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

Question No: 66 (Marks: 1) - Please choose one
All threads within a process share the _____ address space.

►Same
►**Different (Page 71)**

Question No: 67 (Marks: 1) - Please choose one
_____ displays information about the top processes.

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►Is
►Cs
►**Top (Page 67)**
►Cd

Question No: 68 (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: 69 (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: 70 (Marks: 1) - Please choose one
POSIX is a standard developed by ANSI
►IEEE (not sure)
►**ISO**
►ACM

Question No: 71 (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: 72 (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: 73 (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: 74 (Marks: 1) - Please choose one
/usr/X11R6 is used by the X Window System.

►**True (Page 27)**
►False

Question No: 75 (Marks: 1) - Please choose one
command displays the contents of current working directory.

►**Is (Page 28)**
►Cs
►Mv

Question No: 76 (Marks: 1) - Please choose one
Linux uses _____ directory to store system configuration files.

►/bin
►/dev
►/boot
►**/etc (Page 26)**

Question No: 77 (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: 78 (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: 79 (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: 80 (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: 81 (Marks: 1) - Please choose one
/opt is used for storage of large applications.
►**True (Page 27)**
►False

Question No: 82 (Marks: 1) - Please choose one
____ is a virtual directory in Linux and Unix.
►**/proc (Page 27)**
►/temp
►/ver
►/boot

Question No: 83 (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: 84 (Marks: 1) - Please choose one
Linux Treats Devices as Files.
►**True (Page 26)**
►False

Question No: 85 (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: 86 (Marks: 1) - Please choose one

A pathname is the list of directories separated by _____.
►#
►$
►&
►/ **(Page 25)**

Question No: 87 (Marks: 1) - Please choose one
_____ determines How to do something.

►**Mechanism (Page 24)**
►Policy
►Mechanism and Policy:
►None of the given

Question No: 88 (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: 89 (Marks: 1) - Please choose one
We can install and run multiple OS by using VMWare.

►**True click here for detail**
►False

Question No: 90 (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: 91 (Marks: 1) - Please choose one
In Layered Approach of OS, the Layer highest Layer is User Interface layer.
►**True (Page 21)**
►False

Question No: 92 (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: 93 (Marks: 1) - Please choose one
Operating System is the Manager of Hardware Resources.
►**True (Page 6)**
►False

Question No: 94 (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: 95 (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: 96 (Marks: 1) - Please choose one
_____ determines What will be done.

►Mechanism
►**Policy (Page 24)**
►Mechanism and Policy
►None of the given

Question No: 97 (Marks: 1) - Please choose one
copy file1 file2 is an example of _____ OS view.

►**Top down (Page 6)**
►Bottum Up

Question No: 98 (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: 99 (Marks: 1) - Please choose one
Managing Secondary Storage Involves all of the Following except

►Allocating storage space
►Deallocating Storage

►**Prevent Overwritting (Page 5)**
►**Insure integrity of shared data**

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: 100 (Marks: 1) - Please choose one
The Purpose of Operating System is to generate Executable Programs and to _____ them.

►Regenetrate
►**Execute (Page 5)**
►Store
►Remove

Question No: 101 (Marks: 1) - Please choose one
Users are the People, machines or computers that uses the Hardware resources.

►**True (Page 4)**
►False

Question No: 102 (Marks: 1) - Please choose one
Database, Complier, Video games are examples of _____.

►Hardware
►**Application (Page 4)**
►Operating System
►Users

Question No: 103 (Marks: 1) - Please choose one
Which of the Following is not an Operating System.

►Linux
►Unix
►Windows Xp
►**Datebase (Page 7)**

Question No: 104 (Marks: 1) - Please choose one
Operating system enables the user to use the Hardware Resources.

►**True (Page 4)**
►False

Question No: 105 (Marks: 1) - Please choose one
Which of the following is NOT a Hardware Resource.

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

Question No: 106 (Marks: 1) - Please choose one
Hardware provide basic computing resource.
►**True (Page 4)**
►False

Question No: 107 (Marks: 1) - Please choose one
The priorities of processes in the _____ group remain fixed.
►**Kernel (Page 93)**
►User

Question No: 108 (Marks: 1) - Please choose one
The process of switching from one process to another is called latency.
►True
►**False (Page 34)**

Question No: 109 (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: 110 (Marks: 1) - Please choose one
The nice value helps in assigning _____ to a process.

►**Priority (Page 94)**
►Weight
►Time
►Scheduling

Question No: 111 (Marks: 1) - Please choose one
You can use the rm file1 command to _____ file1
►Retrieve
►**Remove (Page 30)**
►Make
►modify

Question No: 112 (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: 113 (Marks: 1) - Please choose one
Using _____system, we can create a new process in Linux.

►**Fork (Page 39)**
► exec
►wait
►exit

Question No: 114 (Marks: 1) - Please choose one
Cooperating processes never share any data, code, memory or state.

►True
►**False (Page 5)**

Question No: 115 (Marks: 1) - Please choose one
____ command display the status of a process.

►ls
►**ps (Page 66)**
►gcc
►cat

Question No: 116 (Marks: 1) - Please choose one
Swapper is also termed as Short term scheduler.

►True
►**False (Page 36)**

Question No: 117 (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: 118 (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: 119 (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: 120 (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: 121 (Marks: 1) - Please choose one
Kernel is responsible for scheduling the user level threads.
►True
►**False (Page 73)**

Question No: 122 (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: 123 (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: 124 (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 125 (Marks: 1) - Please choose one
Deadlock detection and recovery technique is exactly similar to deadlock avoidance technique to handle deadlock in the system.

►**True**
►False

Question 126 (Marks: 1) - Please choose one
In Overlay technique, we can overload any part of the program with the part of the program required needed recently.

►True
►**False**

Question 127 (Marks: 1) - Please choose one
_____ is the process of mapping a name to an address.
►Addressing
►Binding
►Routing
►Memory

جھوٹ رزق کو کھا جاتا ہے

اس سے پہلے کہ تمہیں شہوت فتنے میں ڈالے نکاح کرلو

انسان کے لئے بری صحبت سے بڑھ کر بری کوئی چیز نہیں

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