MET-IIT Practice Mock for OS

1.	How do you rename file "foo" to file " bar"?
B. C.	mv foo bar move foo bar cp foo bar copy foo bar
2.	Which of the following character represents the user home directory?
3.	User passwords for authentication purpose are stored in file.
B. C.	/etc/shadow /etc/password /etc/profile ~/.profile
4.	For some file the access permissions are modified to 764. Which of the following interpretation is valid?
B. C.	Everyone can read, group can execute only and the owner can read and write. Everyone can read and write, but owner alone can execute Everyone can read, group including owner can write, owner alone can execute None of these
5.	What is meaning of wildcard character *?
B. C.	Any number of characters including none single character any character specified between range none of the above
6.	Which of the following combination of shell commands will return the output Welcome?
B. C.	echo "Welcome to the shell" tr " " "\n" sort -r tail -n 1 echo "Welcome to the shell" ; tr " " "\n" ; sort -r ; tail -n 1 echo "Welcome to the shell" > tr " " "\n" > sort -r> tail -n 1 echo "Welcome to the shell" < tr " " "\n" < sort -r < tail -n 1
7.	What will be the correct syntax for if-else statement in shell script?
A.	if [expr] then
	else
B.	if[expr]; then
	else
C.	if [expr] then
	else
D.	Fi if [expr]; then
	else

8. What is the output of following command echo "scale = 2; 10 * 100 / 30" bc
A. 33 B. 33.00 C. 33.33 D. None of these
 9. Which of following command is use to delete the history from system A. history -d B. history -s C. history -r D. history -c
10. Which command removes a directory from directory stack? A. dirs B. popd C. pushd D. rm
11. Any user wants to access the services of operating system, which of the following interface option is correct.
A. Interrupts B. Drivers C. library D. system calls
12. Consider the following statements with respect to user-level threads and kernel supported threads I context switch is faster with kernel-supported threads II for user-level threads, a system call can block the entire process III Kernel supported threads can be scheduled independently IV User level threads are scheduled by to the kernel
A. II,III,IV B. II,III C. I,III D. I,II
13. The system which allows execution of only one process at a time, is known as
A. unitasking systems B. uniprocessor systems C. multiprogramming systems D. multiprocessor systems
14. Which of the following statements are true? I) Shortest remaining time first scheduling may cause starvation II) Preemptive scheduling may cause starvation III) Round robin is better than FCFS in terms of response time A. I only B. I and III only C. II and III only D. I,II and III
15. The processes that are residing in main memory and are waiting to execute are kept on data structure called as
A. execution queue B. job queue C. process queue D. ready queue

16. Semaphores work for:			
 A. Single Threaded Processes only. B. Multi Threaded Processes only. C. Both (A) and (B). D. None of the above. 			
 17. To avoid race condition, the maximum number of processes that may be simultaneously inside the critical section is A. Zero B. One C. Two D. More than two 			
18. Using a larger block size in a fixed block size file system leads to :			
better disk throughput but poorer disk space utilization better disk throughput and better disk space utilization poorer disk throughput but better disk space utilization poorer disk throughput and poorer disk space utilization			
19. Which of the following condition is required for deadlock to be possible?			
 A. mutual exclusion B. process may hold allocated resources while awaiting assignment of other resources C. no resource can be forcibly removed from a process holding it D. All of the above 			
20. Which of the following are the likely causes thrashing?			
 A. Too many processes are loaded in the system. B. Low physical memory C. Both A & B D. None of the above. 			
21. Sys V IPC objects are			
A. objects on the file system B. destroyed automatically when the program completes execution C. destroyed automatically when system reboots D. None of the above			
22. Suppose the following disk request sequence (track numbers) for a disk with 100 tracks is given: 45, 20, 90, 10, 50, 60, 80, 25, 70. Assume that the initial position of the R/W head is on track 50. The additional distance that will be traversed by the R/W head when the Shortest Seek Time First (SSTF) algorithm is used compared to the SCAN (Elevator) algorithm (assuming that SCAN algorithm moves towards 100 when it starts execution) is tracks.			
A. 8 B. 9 C. 10 D. 11			
23. What is the output of following command?			

A. Display detailed information of processes currently running, of all users

ps -aux

B. Display detailed information of processes currently running, of current user
C. Display detailed information of processes and daemons currently running, of current terminal

D. Display detailed information of processes and daemons currently running, of current user

24. How many child processes will be created by using following code? 1. #include<stdio.h> #include<unistd.h> 3. 4. int main() 5. { 6. fork(); 7. fork(); 8. fork(); printf("Hello World!\n"); 9. 10. return 0; 11. A. 3 B. 5 C. 7 D. 9 IPC mechanism lacks internal synchronization support. A. UNIX Socket B. FIFO C. Shared memory D. Message queues 26. If the semaphore value is Zero: A. process can lock it without blocking B. the value never becomes zero C. The process try to lock will block until the semaphore is unlocked. D. None of these Named pipe is also known as A. UNIX Sockets B. LIFO C. Message Queus D. FIFO 28. Which of the following are true in the case of a pipe as a mechanism of IPC? A pipe is used for uni-directional communication. B. A pipe uses a buffer and the size of the buffer can be specified by the user at the time of C. Pipes can be extended to establish communication between processes resident on different machines provided we use the process id together with IP address of the machines. D. None of the above. 29. Object files are also known as A. shared object files B. archive files C. relocatable files D. dll files

API is used to obtain the current thread handle.

30.

A. pthread_idB. pthread_callC. pthread_pidD. pthread_self

31. The following program consists of 3 concurrent processes and 3 binary semaphores. The semaphores are initialized as S0=1, S1=0, S2=0.

Process P0	Process P1	Process P2
while (true) { wait (S0); print (0); release (S1); release (S2); }	wait (S1); Release (S0);	wait (S2); release (S0);

release (52	2);		
How many times	will process P0 print '0'?	62	
A. At least twice B. Exactly twice C. Exactly thrice D. Exactly once			
32. Which of following	ng is used for mutual exc	clusion?	
A. shared memoryB. semaphoresC. Message QueuesD. All of the above			
33. Which System of	all is used to block the p	arent process till the co	ompletion of child?
A. join B. break C. waitpid D. pjoin			
110	5 people are currently rocesses will be	using the vi editor. th	en the number of
A. 1 B. 5 C. 2 D. 0			
toward the other	algorithm, the disk arm of end, servicing requests n is reversed and servici	till the other end of the	
A. LOOK B. SCAN C. C-SCAN D. C-LOOK			
36. Which of the for restarted?	llowing loader is execut	ted when a system is	first turned on or
Boot loader Compile and Go I Bootstrap loader Relating loader	oader		
37. The system call	msgget		
B. maps message qC. deletes message	on of message queue ueue with address space o queue queue or obtain the id for e	0/0 * 0/0 0/4/00 0P4/900 0P4/900	
38 Which of the foll	owing control structure is	s not used for repeating	code execution?

- A. for B. while C. until D. case

- 39. From the statements identify the conditions under which a deadlock happens:

- a. Mutual exclusion
- b. Hold and wait
- c. Preemption
- c. No preemption
- d. Round-robin scheduling
- e. Cyclic procedure calls
- f. Circular wait
- A. a,b,c,e
- B. a,b,e,f
- C. a.c,b,f
- D. a,f,d,c
- 40. Which of the following is/are advantage of virtual memory?
- A. Faster access to memory on an average
- B. Processes can be given protected address spaces.
- C. Minimizes CPU utilization.
- D. Programs larger than the physical memory size can be run.