University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Computer Engineering
Curriculum Scheme: Rev2012
Examination: Third Year Semester V
Course Code: CPC502 and Course Name: Operating System

Time: 1 hour   Max. Marks: 50

===

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	The procedure of starting a computer by loading the kernel is known as….. the system.
Option A:	Loading
Option B:	Booting
Option C:	Starting
Option D:	Resuming
Q2.	In Windows OS,I/O Manager is responsible for_____
Option A:	It doesn't Manage Anything
Option B:	Deadlock management
Option C:	Memory Management
Option D:	Device and Network Drivers
Q3.	Process which terminates before the parent process exits is known as
Option A:	Orphan
Option B:	Zombie
Option C:	Child
Option D:	Parent
Q4.	Which option is used with ls command to list the directory attributes rather than its contents?
Option A:	-a
Option B:	-b
Option C:	-c
Option D:	-d
Q5.	The first-fit, best-fit and the worst-fit algorithm can be used for
Option A:	Non-contiguous memory allocation
Option B:	linked allocation of memory
Option C:	indexed allocation of memory
Option D:	contiguous allocation of memory
Q6.	Which data structure is used to store the attributes of a file and disk addresses of file blocks?
Option A:	I-node
Option B:	Symbol table
Option C:	Stack
Option D:	Activation record

Q7.	An edge from process Pi to Pj in a wait for graph indicates that _____
Option A:	Pi is waiting for Pj to release a resource that Pi needs
Option B:	Pj is waiting for Pi to release a resource that Pj needs
Option C:	Pi is waiting for Pj to leave the system
Option D:	Pj is waiting for Pi to leave the system
Q8.	Run time mapping from virtual to physical address is done by
Option A:	program counter
Option B:	CPU
Option C:	PCI
Option D:	memory management unit
Q9.	The location for subdirectories for local programs and executables for user and administrative commands, is:
Option A:	/usr
Option B:	/tmp
Option C:	/opt
Option D:	/mnt
Q10.	In which of the following disk scheduling algorithm the head goes only as far as the final request without going till the end of the disk and it then reverses its direction and service the requests?
Option A:	LOOK
Option B:	SCAN
Option C:	SSTF
Option D:	CSCAN
Q11.	A ----- operating system is an OS architecture in which the entire operating system works in the kernel space.
Option A:	Layered
Option B:	Monolithic
Option C:	Micro-kernel
Option D:	Modular
Q12.	Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called?
Option A:	Fragmentation
Option B:	Paging
Option C:	Mapping
Option D:	Swapping
Q13.	A deadlock can be broken by _____
Option A:	abort one or more processes to break the circular wait
Option B:	abort all the process in the system

Option C:	preempt all resources from all processes
Option D:	Abort one process at a time
Q14.	If all page frames are initially empty, and a process is allocated 3 page frames in real memory and references its pages in the order 1 2 3 2 4 5 2 3 2 4 1 and the page replacement is FIFO, the total number of page faults caused by the process will be _____.
Option A:	10
Option B:	7
Option C:	8
Option D:	9
Q15.	Which of the following is the simplest disk scheduling algorithm?
Option A:	FCFS
Option B:	SSTF
Option C:	SCAN
Option D:	LOOK
Q16.	Which command is used to list all the files?
Option A:	ld
Option B:	lr
Option C:	ls
Option D:	lp
Q17.	Which of the following is not a feature of UNIX?
Option A:	Multitasking
Option B:	Multiuser
Option C:	Portability
Option D:	easy to use
Q18.	A process has been allocated all the resources required and is waiting for the attention from CPU means it is in____ state.
Option A:	New
Option B:	Running
Option C:	Terminated
Option D:	Ready
Q19.	We can use the _____ symbol with at command to redirect our output to a specified file.
Option A:	<
Option B:	>
Option C:	>>
Option D:	%
Q20.	Which type of scheduler controls degree of multiprogramming?
Option A:	Long term Scheduler

Option B:	Short term Scheduler
Option C:	Mid-term scheduler
Option D:	Hybrid -term Scheduler
Q21.	Which one of the following is a visual way to determine the deadlock occurrence?
Option A:	resource allocation graph
Option B:	starvation graph
Option C:	inversion graph
Option D:	Wait for graph
Q22.	Which of the following is major part of time taken when accessing data on the disk?
Option A:	Settle time
Option B:	Rotational latency
Option C:	Waiting time
Option D:	Seek time
Q23.	Which of the following format of partition tables does Linux use?
Option A:	BSD
Option B:	MAC
Option C:	DOS
Option D:	UnixWare
Q24.	_____is the main criteria for performance evaluation of CPU scheduling algorithms.
Option A:	CPU utilization
Option B:	Seek time
Option C:	Rotation delay
Option D:	Protection
Q25.	Peterson's solution works on ____ processes.
Option A:	One
Option B:	Two
Option C:	Three
Option D:	Four

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Computer Engineering
Curriculum Scheme: Rev2012
Examination: Third Year Semester V
Course Code: CPC502 and Course Name: Operating System

Time: 1 hour   Max. Marks: 50

==

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	B
Q2.	D
Q3.	B
Q4	D
Q5	D
Q6	A
Q7	A
Q8.	D
Q9.	A
Q10.	A
Q11.	B
Q12.	B
Q13.	A
Q14.	D
Q15.	A
Q16.	C
Q17.	D
Q18.	D
Q19.	B
Q20.	A
Q21.	A
Q22.	D
Q23.	C
Q24.	A
Q25.	B