

These are sample MCQs to indicate pattern, may or may not appear in examination

**University of Mumbai
Online Examination 2020**

Program: BE Electronics and Telecommunication Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester VI

Course Code: ETC605 and Course Name: Operating Systems

Time: 1hour

Max. Marks: 50

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

Q1.	In a parent process calling _____ system call will be suspended until children processes terminate.
Option A:	wait
Option B:	for
Option C:	exit
Option D:	exec
Q2.	Each process in UNIX, is identified by its _____
Option A:	Process Control Block
Option B:	Device Queue
Option C:	Process Identifier
Option D:	File creation
Q3.	Which of the below two operations are provided by the IPC facility?
Option A:	write & delete message
Option B:	delete & receive message
Option C:	send & delete message
Option D:	receive & send message
Q4.	Which of the below do not belong to queues for processes?
Option A:	Job Queue
Option B:	PCB queue
Option C:	Device Queue
Option D:	Ready Queue
Q5.	After the process issues an I/O request _____
Option A:	It is placed in an I/O queue
Option B:	It is placed in a waiting queue
Option C:	It is placed in the ready queue
Option D:	It is placed in the Job queue

Q6.	In File System, free space list is implemented as _____
Option A:	Garbage collector
Option B:	Bit vector
Option C:	Free space mapping
Option D:	Byte map
Q7.	What will happen if a process terminates?
Option A:	It is removed from all queues
Option B:	It is removed from all, but the job queue
Option C:	Its process control block is de-allocated
Option D:	Its process control block is never de-allocated
Q8.	If all processes I/O bound, the ready queue will almost always be _____ and the Short term Scheduler will have a _____ to do.
Option A:	full, little
Option B:	full, lot
Option C:	empty, little
Option D:	empty, lot
Q9.	Suppose requests have recently arrived for data on cylinders 25, 46, 12, and 3, in that order, and that the read-write head is currently at cylinder 20. If the disk scheduling policy is SSTF, the outstanding requests will be serviced in the order
Option A:	25, 46, 12, 3
Option B:	25, 46, 3, 12
Option C:	3, 12, 25, 46
Option D:	25, 12, 3, 46
Q10.	If the number of cycles spent busy - waiting is not excessive, then _____
Option A:	interrupt driven I/O is more efficient than programmed I/O
Option B:	programmed I/O is more efficient than interrupt driven I/O
Option C:	both programmed and interrupt driven I/O are equally efficient
Option D:	interrupt driven I/O and programmed I/O both are not efficient
Q11.	Consider there are five memory partitions of size 200KB, 100KB, 350KB, 250KB and 400kB. These partitions are allocated with four processes of P1= 190KB, P2=210KB, P3=330KB and P4=50KB
Option A:	P1, P4, P3 & P2
Option B:	P2, P4, P3 & P1
Option C:	P3, P4, P1 & P2
Option D:	P4, P1, P3 & P2
Q12.	Thrashing will take place when _____
Option A:	When a page fault occurs
Option B:	Processes on system frequently access pages not memory
Option C:	Processes on system are in running state

Option D:	Processes on system are in waiting state
Q13.	Assume that there are 3 page frames which are initially empty. If the page reference string is 1, 2, 3, 4, 2, 1, 5, 3, 2, 4, 6, the number of page faults using the optimal replacement policy
Option A:	5
Option B:	6
Option C:	7
Option D:	8
Q14.	In which location swap space reside?
Option A:	RAM
Option B:	CACHE
Option C:	ROM
Option D:	DISK
Q15.	_____ OS treats hardware as a file system.
Option A:	UNIX
Option B:	DOS
Option C:	Windows NT
Option D:	Android
Q16.	An example of a memory management system call in UNIX is:
Option A:	fork
Option B:	mmap
Option C:	sigaction
Option D:	execve
Q17.	The technique in which the CPU generates physical addresses directly is known as _____
Option A:	relocation register method
Option B:	real addressing
Option C:	virtual addressing
Option D:	logical addressing
Q18.	What is the priority of a real time task?
Option A:	must degrade over time
Option B:	must not degrade over time
Option C:	may degrade over time
Option D:	proportionally degrade with time
Q19.	In a safety critical system, incorrect operation _____
Option A:	does not affect much
Option B:	causes minor problems
Option C:	causes major and serious problems
Option D:	create complex problems

Q20.	Priority inversion is solved by use of _____
Option A:	Priority inheritance protocol
Option B:	Two phase lock protocol
Option C:	Time protocol
Option D:	without priority
Q21.	In the _____ algorithm, the disk head moves from one end to the other, servicing requests along the way. When the head reaches the other end, it immediately returns to the beginning of the disk without servicing any requests on the return trip.
Option A:	LOOK
Option B:	C-SCAN
Option C:	SCAN
Option D:	C-LOOK
Q22.	The OS which is not based on Linux is -
Option A:	BSD
Option B:	Ubuntu
Option C:	CentOs
Option D:	Redhat
Q23.	Kernel minimizes the frequency of disk access by keeping a pool of internal data buffer which helps to increase the response time, this is known as ?
Option A:	Buffer cache
Option B:	Spooling
Option C:	Pooling
Option D:	Virtual Memory
Q24.	How applications communicates with kernel ?
Option A:	Not disclosed by linux team
Option B:	SSL
Option C:	System Calls
Option D:	Shell
Q25.	What is meaning of ILP32 .?
Option A:	32 bit Integrated, Long & Pointer
Option B:	32 bit Integer, Long & Pointer
Option C:	32 bit Integer, Long & Point
Option D:	32 bit Integer, Lost & Pointer