Program: BE Information Technology

Curriculum Scheme: Revised 2016

Examination: Second Year Semester IV

Course Code: ITC403 and Course Name: Operating Systems

Time: 1 hour Max. Marks: 50

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

Q1.	Inter process communication can be done through _____.
Option A:	System calls
Option B:	Mails
Option C:	Message passing
Option D:	Traps
Q2.	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:	Page fault
Q3.	In Operating System Multitasking means_____
Option A:	OS can divide up work between several CPUs
Option B:	Time sharing scheduling technique is used
Option C:	Multiple computers can be used by single person
Option D:	Several programs can be operated from remote location
Q4.	Which of the following is not a type of kernel in operating system?
Option A:	Microkernel
Option B:	Layered kernel
Option C:	Monolithic kernel
Option D:	Mini kernel
Q5.	Reference to the state diagram of process management, if specific process is in a blocked state, what is next most probable state it will transit?
Option A:	Ready state
Option B:	Run state
Option C:	End state
Option D:	New state

Q6.	Which scheduling Algorithm provides equal opportunity for every process to execute?
Option A:	Shortest Job First (SJF)
Option B:	First Come First Serve (FCFS)
Option C:	Last Come First Serve (LCFS)
Option D:	Round Robin (RR)
Q7.	Which of the following page replacement algorithm is not practically used but may provide ideal performance?
Option A:	Optimal
Option B:	First Come First Serve
Option C:	Least Recently Used
Option D:	Least Frequently Used
Q8.	The address of a page table in memory is pointed by _____
Option A:	Stack pointer
Option B:	Program counter
Option C:	Page register
Option D:	Page table base register
Q9.	Which of the following is not an appropriate criterion for file organization?
Option A:	Larger access time
Option B:	Ease of update
Option C:	Simple maintenance
Option D:	Economy of storage
Q10.	Which of the following is not a valid file access and implementation technique?
Option A:	Contiguous allocation
Option B:	Indexed allocation
Option C:	Linked list allocation
Option D:	Random allocation
Q11.	Algorithm like Shortest Seek Time First is applied on which type of memory?
Option A:	Random Access Memory
Option B:	Read Only Memory
Option C:	Read Write Memory
Option D:	Disk Memory
Q12.	Which of the following is a disk scheduling algorithm?
Option A:	Round Robin
Option B:	Shortest Job First
Option C:	Scan
Option D:	Indexed
Q13.	Which of the following isn’t a part of the file directory?
Option A:	Attributes

Option B:	Ownership
Option C:	Location
Option D:	Protocol
Q14.	What is a part of operating system that determines which process will be taken for execution by a CPU?
Option A:	Dispatcher
Option B:	Loader
Option C:	Linker
Option D:	Scheduler
Q15.	_____ Computing refers to the applications and services that run on a distributed network using virtualization resources.
Option A:	Distributed
Option B:	Cloud
Option C:	Soft
Option D:	Parallel
Q16.	The technology used to distribute service requests to resources is referred to as:
Option A:	Load performing
Option B:	Load shedding
Option C:	Load balancing
Option D:	Load scheduling
Q17.	Which one of the following is a synchronization tool?
Option A:	semaphore
Option B:	socket
Option C:	pipe
Option D:	thread
Q18.	What is Thrashing
Option A:	A extremely long virtual memory is called thrashing
Option B:	A high executing activity is called thrashing
Option C:	A high paging activity is called thrashing
Option D:	A extremely long process is called thrashing
Q19.	A process must be holding at least one resources and waiting to acquire additional resources that are currently being held by other processes.this condition for deadlock is referred to as
Option A:	Mutual exclusion
Option B:	Hold and wait
Option C:	No preemption
Option D:	Circular Wait
Q20.	The content of the matrix Need is _____
Option A:	Allocation – Available

Option B:	Max – Allocation
Option C:	Allocation – Max
Option D:	Max – Available
Q21.	What are the two kinds of semaphores?
Option A:	mutex & counting
Option B:	binary & counting
Option C:	counting & decimal
Option D:	decimal & binary
Q22.	In which of the following page replacement policies Balady's anomaly occurs?
Option A:	Most recently used.
Option B:	LRU
Option C:	FIFO
Option D:	Optimal page replacement policy.
Q23.	On a single processor four jobs are to be executed. At time t = (0) + (jobs arrive in the order of A, B, C, D). The burst CPU time requirements are 4, 1, 8, 1 time units respectively. Under Round Robin Scheduling with the time slice of 1 time unit the completion time of A is _____.
Option A:	3
Option B:	5
Option C:	7
Option D:	9
Q24.	Which of the following is deadlock avoidance algorithm?
Option A:	round-robin algorithm
Option B:	banker's algorithm
Option C:	Multilevel feedback
Option D:	Shortest Job First
Q25.	In Priority Scheduling a priority number (integer) is associated with each process. The CPU is allocated to the process with the highest priority (smallest integer = highest priority). The problem of, Starvation ? low priority processes may never execute, is resolved by _____.
Option A:	Terminating the process.
Option B:	Aging
Option C:	Mutual Exclusion
Option D:	Semaphore