Set	1	

1. Which of the following is/ are the part of operating system?
A) Kernel services
B) Library services
C) Application level services
D) All of the above
2. The system of generally ran one job at a time. These were called single stream batch processing.
A) 40's
B) 50's
C) 60's
D) 70's
3. In generation of operating system, operating system designers develop the concept of multi- programming in which several jobs are in main memory at once.
A) First
B) Second
C) Third
D) Fourth
4. State True or False.
i) In spooling high speed device like a disk is interposed between running program and low-speed device in Input/output.
ii) By using spooling for example instead of writing directly to a printer, outputs are written to the disk.
A) i-True, ii-False
B) i-True, ii-True
C) i-False, ii-True
D) i-False, ii-False

5. Which of the following is/are the fun	actions of operating system?
i) Sharing hardware among users.	ii) Allowing users to share data among themselves.
iii) Recovering from errors.	iv) Preventing users from interfering with one another.
v) Scheduling resources among users.	
A) i, ii, iii and iv only	
B) ii, iii, iv and v only	
C) i, iii, iv and v only	
D) All i, ii, iii, iv and v	
6 executes must frequently the next.	y and makes the fine grained decision of which process to execute
A) Long-term scheduling	
B) Medium-term scheduling	
C) Short-term scheduling	
D) None of the above	
7. With a page is brought int that page.	o main memory only when the reference is made to a location on
A) demand paging	
B) main paging	
C) prepaging	
D) postpaging	
8 provides a larger sized multidimensional memory.	d of virtual memory but require virtual memory which provides
A) Paging method	
B) Segmentation method	
C) Paging and segmentation method	
D) None of these	

		s a large kernel containing virtually the con le system, device drivers and memory mar		
A) Mul	tilithic	kernel		
B) Mor	olithio	kernel		
C) Mici	o kerr	nel		
D) Mad	ro ker	nel		
10		is a large operating system core provides a	wide	range of services.
A) Mul	tilithic	kernel		
B) Mor	olithio	kernel		
C) Mici	o kerr	nel		
D) Mad	ro ker	nel		
Answe	rs:			
	1.	D) All of the above	6.	C) Short-term scheduling
	2.	B) 50's	7.	A) demand paging
	3.	C) Third	8.	B) Segmentation method
	4.	B) i-True, ii-True	9.	B) Monolithic kernel
	5.	D) All i, ii, iii, iv and v	10.	D) Macro kernel
!				
SET 2				
1. The IBM 70		atch operating system was developed in the	e	by General Motors for use on an
A) mid	1940's	S		
B) mid	1950's	5		
C) mid	1960's	5		
D) mid	1970	's		
2. Proc	ess is .			
A) A pr	ogram	in execution		

B) An instance of a program running on a computer.
C) The entity that can be assigned to and executed
D) All of the above.
3 is a facility that allows programmers to address memory from a logical point of view, without regard to the main memory, physically available.
A) Visual memory
B) Real memory
C) Virtual memory
D) Secondary memory
4is a large kernel, including scheduling file system, networking, devicedrivers, memory management and more.
A) Monolithic kernel
B) Micro kernel
C) Macro kernel
D) Mini kernel
5. A architecture assigns only a few essential functions to the kernel, including address spaces, Inter process communication(IPC) and basic scheduling.
A) Monolithic kernel
B) Micro kernel
C) Macro kernel
D) Mini kernel
6. State whether true or false.
i) Multithreading is useful for application that perform a number of essentially independent tasks that do not be serialized.

ii) An example of multithreading is a database server that listens for and process numerous client request.
A) i-True, ii-False
B) i-True, ii-True
C) i-False, ii-True
D) i-False, ii-False
7. With only one process can execute at a time; meanwhile all other process are waiting for the processer. With more than one process can be running simultaneously each on a different processer.
A) Multiprocessing, Multiprogramming
B) Multiprogramming, Uniprocessing
C) Multiprogramming, Multiprocessing
D) Uniprogramming, Multiprocessing
8. The two central themes of modern operating system are
A) Multiprogramming and Distributed processing
B) Multiprogramming and Central Processing
C) Single Programming and Distributed processing
D) None of above
9 refers to the ability of multiple process (or threads) to share code, resources or data in such a way that only one process has access to shared object at a time.
A) Synchronization
B) Mutual Exclusion
C) Dead lock
D) Starvation
10 is the ability of multiple process to co-ordinate their activities by exchange of information
A) Synchronization

B) Mu	ıtual E	xclusion		
C) Dea	ad locl	k		
D) Sta	ırvatio	n		
Answ	ers:			
	1.	B) mid 1950's	6.	B) i-True, ii-True
	2.	D) All of the above.	7.	C) MultiMultiprocessing
	3.	C) Virtual memory	8.	A) Multiprograprocessing
	4.	A) Monolithic kernel	9.	B) Mutual Exclusion
	5.	B) Micro kernel	10.	A) Synchronization
SET 3				
1. Wh	ich of	the following is not the function of Micro k	ernel	•
A) File	e mana	agement		
B) Lov	w-leve	I memory management		
C) Inte	er-pro	cess communication		

a) A process may hold allocated resources while waiting assignment.

b) No resource can be forcibly removed from a process holding it.

c) Only one process may use a resource at a time.

3. A direct method of deadlock prevention is to prevent the occurrences of

D) I/O interrupts management

2. Match the following.

i) Mutual exclusion

ii) Hold and wait

iii) No preemption

A) i-a, ii-b, iii-c

B) i-a, ii-c, iii-b

C) i-b, ii-c, iii-a

D) i-c, ii-a, iii-b

A) Mutual exclusion
B) Hold and wait
C) Circular waits
D) No preemption
4. The methods or algorithms which are used to increase the performance of disk storage sub-system is called
A) Disk performing
B) Disk scheduling
C) Disk storing
D) Disk extending
5 is the time required to move the disk arm to the required track.
A) Seek time
B) Rotational delay
C) Latency time
D) Access time
6. The policy restricts scanning to one direction only.
A) SCAN
B) C-SCAN
C) N-Step SCAN
D) Both A and B
7 policy selects the disk I/O request that requires the least movement of the disk arm from its current position.
A) FSCAN
B) SSTF
C) SCAN

D) C-SCAN
8 refers to the ability of an operating system to support multiple threads of execution with a single process.
A) Multithreading
B) Multiprocessing
C) Multiexecuting
D) Bi-threading
9. State whether the following statement is true.
i) It takes less time to terminate a thread than a process.
ii) Threads enhance efficiency in communication between different executing programs.
A) i-True, ii-False
B) i-True, ii-True
C) i-False, ii-True
D) i-False, ii-False
10is a special type of programming language used to provide instructions to the monitor simple batch processing schema.
A) Job control language (JCL)
B) Processing control language (PCL)
C) Batch control language (BCL)
D) Monitor control language (MCL)

Answers:

1. A) File management	6. B) C-SCAN
2. D) i-c, ii-a, iii-b	7. B) SSTF
3. C) Circular waits	8. A) Multithreading
4. B) Disk scheduling	9. B) i-True, ii-True
5. A) Seek time	10. A) Job control language (JCL)

SET 4
1 refers to a situation in which a process is ready to execute but is continuously denied access to a processor in deference to other processes.
A) Synchronization
B) Mutual Exclusion
C) Dead lock
D) Starvation
2. Which of the following is not the approach to dealing with deadlock?
A) Prevention
B) Avoidance
C) Detection
D) Deletion
3. Which of the following are the states of a five state process model?
i) Running ii) Ready iii) New iv) Exit v) Destroy
A) i, ii, iii and v only
B) i, ii, iv and v only
C) i, ii, iii, and iv only
D) All i, ii, iii, iv and v
4. State which statement is true for Suspended process?
i) The process is not immediately available for execution.
ii) The process may be removed from suspended state automatically without removal order.
A) i only
B) ii only
C) i and ii only
A) i only B) ii only

D) None

5. Following is/are the reasons for process suspension.
A) Swapping parent process
B) Inter request
C) Timing
D) All of the above
6. The different types of tables maintained by the operating system are
A) memory, logical , I/O file
B) memory, I/O, file, physical
C) memory, I/O, file, process
D) memory, logical, I/O, physical
7. Which of the following information not included in memory table?
A) The allocation of main memory to process.
B) The allocation of secondary memory to process
C) Any information needed to manage virtual memory
D) Any information about the existence of file
8. Process Management function of an operating system kernel includes.
A) Process creation and termination.
B) Process scheduling and dispatching
C) Process switching
D) All of the above
9. The typical elements of process image are
i) User data ii) System Data iii) User program iv) System stack
A) i, iii and iv only
B) i, ii, and iv only

C) ii, iii,	and iv only	
D) All i,	ii, iii, and iv	
10. Mat	tch the following mechanisms for interrupting th	ne execution of a process and their uses.
) Interrupt a) Call to an operating system function		
ii) Trap	b) Re	eaction to an asynchronous external event
ii) Supervisor Call c) H		landling of a error or an exception condition
A) i-a, ii	i-b, iii-c	
B) i-c, ii	-a, iii-b	
C) i-b, ii	i-c, iii-a	
D) i-a, ii	i-c, iii-b	
Answei	rc·	
Aliswei T		6. C) memory, I/O, file, process
	2. D) Deletion	7. D) Any information of file
	3. C) i, ii, iii, and iv only4. A) i only	8. D) All of the above9. A) i, iii and iv only
	5. D) All of the above	10. C) i-b, ii-c, iii-a
L	J. D) All of the above	10. C) 1-D, 11-C, 111-a
SET 5		
. The ur	nit of dispatching is usually referred to as a	
A) Thre	ad	
B) Light	weight process	
C) Proc	ess	
D) Both	n A and B	
2	is a example of an operating system that	support single user process and single thread.
A) UNIX	(

C) OS/2
D) Windows 2000
3. State true or false.
i) Unix, support multiple user process but only support one thread per process.
ii) A java run time environment is an example of a system of one process with multiple threads.
A) True, False
B) True, True
C) False, True
D) False, False
4 are very effective because a mode switch is not required to switch from one thread to another.
A) Kernel-level threads
B) User-level threads
C) Alterable threads
D) Application level threads
5 is a condition in which there is a set of concurrent processes, only one of which is able to access a given resource or perform a given function at any time.
A) Mutual Exclusion
B) Busy Waiting
C) Deadlock
D) Starvation
6 Techniques can be used to resolve conflicts, such as competition for resources, and to synchronize processes so that they can cooperate.
A) Mutual Exclusion
B) Busy Waiting
C) Deadlock

D) Starvation			
7 Can be defined as the permanent blocking of a set of processed that either complete for system resources or communicate with each other.			
A) Deadlock			
B) Permanent lock			
C) Starvation			
D) Mutual exclusion			
8. The following conditions of policy must	be present for a deadlock to be possible.		
i) Mutual exclusion	ii) Hold and wait		
iii) No preemption	iv) Circular wait		
A) i, ii and iii only			
B) ii, iii and iv only			
C) i, iii and iv only			
D) All i, ii, iii and iv			
9. A direct method of deadlock preventio	n is to prevent the occurrence of		
A) Mutual exclusion			
B) Hold and wait			
C) Circular waits			
D) No preemption			
10. State true of false.			
i) With paging, each process is divided into relatively small, fixed-size pages.			
ii) Segmentation provides for the use of pieces of varying size.			
A) True, False			
B) True, True			
C) False, True			

D) False, False					
Answers:					
	1.	D) Both A and B	6.	A) Mutual Exclusion]
	2.	B) MS-DOS	7.	A) Deadlock	
	3.	A) True, False	8.	D) All i, ii, iii and iv	
	4.	B) User-level threads	9.	C) Circular waits	
	5.	A) Mutual Exclusion	10.	B) True, True	
SET 6					
1 Involves treating main memory as a resource to be allocated to and shared among a number of active processes.					
A) Partition manag	geme	nt			
B) Memory manag	gemei	nt			
C) Disk manageme	ent				
D) All of the above	9				
2. A process that execute only in main memory is referred to as and that allocated in disk is referred to a					
A) virtual memory, true memory					
B) virtual memory, real memory					
C) real memory, virtual memory					
D) imaginary memory, real memory					
3. In process scheduling, determines when new processes are admitted to the system.					

A) long term scheduling	
B) medium term scheduling	
C) short term scheduling	
D) none of the above	
4. In process scheduling, dete processor.	rmines which ready process will be executed next by
A) long term scheduling	
B) medium term scheduling	
C) short term scheduling	
D) none of the above	
5. The sum of the seek time, and the rotat	ional delay is called the
A) reached time	
B) access time	
C) arrived time	
D) common time	
6. The policy segments the disks	s request queue into sub queues of the length N.
A) SCAN	
B) C-SCAN	
C) N-Step SCAN	
D) FSCAN	
7. Which of the following are the function	ns of operating system?
i) recovering from errors	i) facilitating input/output
iii) facilitating parallel operation i	v) sharing hardware among users
v) implementing user interface	
A) i, ii, ii, and v only	

B) i, ii, iii, and iv or	nly				
C) ii, iii, iv and v or	nly				
D) All i, ii, iii, iv and	v b				
8. File managemer	nt fund	ction of the operating system	includ	es	
i) File creation and	l delet	ion ii) Disk sched	duling		
iii) Directory creat	ion	iv) Mapping	g file i	n secondary storage.	
A) i, ii and iii only					
B) i, iii and iv only					
C) ii, iii and iv only					
D) All i, ii, iii and iv					
9. The D	etermi	ines when a page should be b	rough	t into main memory.	
A) Fetch policy					
B) Placement police	СУ				
C) Replacement po	olicy				
D) Resident set ma	anager	nent			
10. Withreplacement.	A	page is written out to seconda	ary m	emory only when it has been s	elected for
A) pre-cleaning					
B) demand cleanir	ng				
C) required cleaning	ng				
D) fast cleaning					
Answers:					
	1.	B) Memory management	6.	C) N-Step SCAN	
	2.	C) real . virtual memory	7.	D) All i, ii, iii, iv and v	
	3.	A) long term scheduling	8.	B) i. iii and iv only	

9. A) Fetch policy

4. C) short term scheduling

5.	B) access time	10. B) demand cleaning