Operating System

TIME: 1hr MARKS: 20

- 1. To access the services of operating system, the interface is provided by the:
- A. system calls
- **B.** API
- **C.** library
- **D.** assembly instructions

Ans: A

- 2. The operating system manages
 - A. Memory
 - **B.** Processes
 - C. Disks and I/O devices
 - D. all of the above

Ans: D

- 3. A Process Control Block(PCB) does not contain which of the following:
- **A.** bootstrap program
- **B.** stack
- C. Process State
- **D.** I/O status information

Ans: A

- 4. The primary distinction between the short term scheduler and the long term scheduler is:
- **A.** The length of their queues
- **B.** The type of processes they schedule
- C. The frequency of their execution
- **D.** None of these

Ans: C

5. Suppose that a process is in "Blocked" state waiting for some I/O service. When the service is completed, it goes to the :

•	B. Ready state		
•	C. Suspended state		
•	D.	Terminated state	
•	Ans:B		
	6.	When the memory allocated to a process is slightly larger than the process, then:	
•	A.	internal fragmentation occurs	
•	В.	external fragmentation occurs	
•	C.	both a and b	
•	D.	neither a nor b	
Ar	ıs: A	4	
	7.	The operating system and the other processes are protected from being modified by an already running process because :	
•	A.	they are in different memory spaces	
•	B. they are in different logical addresses		
•	C. they have a protection algorithm		
•		every address generated by the CPU is being checked against the relocation and limit gisters	
Ar	ıs: I		
	8.	Run time mapping from virtual to physical address is done by	
		A. Memory management unit	
		B. CPU	
		C. PCI	
		D. None of the mentioned	
Ar	ıs: A	A	
	9.	A state is safe, if	
		A. the system does not crash due to deadlock occurrence	
		B. the system can allocate resources to each process in some order and still avoid a	
		deadlock	

• A. Running state

- C. the state keeps the system protected and safe
- D. all of the mentioned

Ans: B

- 10. Which one of the following is not a secondary storage?
 - A. Magnetic disks
 - B. Magnetic tapes
 - C. RAM
 - D. None of the mentioned

Ans: C

Each Question Caries 2 marks

- 11. Briefly explain any four different Operating System
- 12. What is the difference between logical address space and physical address space?
- 13. Briefly explain different process scheduling algorithm in Operating System
- 14. What are the difference between paging and segmentation
- 15. What are the four necessary and sufficient conditions behind the deadlock?