





After reading the question



After reading first 2 options



After reading all 4 options

Operating System
Memory Management
MCQ Part-1

(MCQs) Group 1: Memory Allocation	
1. The main memory accommodates:     a) operating system	
<ul> <li>2. In contiguous memory allocation:</li> <li>a) each process is contained in a single contiguous section of memory</li> <li>b) all processes are contained in a single contiguous section memory</li> <li>c) the memory space is contiguous</li> <li>d) none of the mentioned</li> </ul>	
<ul> <li>3. The relocation (base) register helps in:</li> <li>a) providing more address space to processes</li> <li>b) a different address space to processes</li> <li>c) to protect the address spaces of processes</li> <li>d) none of the mentioned</li> </ul>	
<ul> <li>4. With relocation and limit registers, each logical address be the limit register.</li> <li>a) less than</li> <li>b) equal to</li> <li>c) greater than</li> <li>d) none of the mentioned</li> </ul>	must
<ul> <li>5. The operating system and the other processes are prote from being modified by an already running process becar a) they are in different memory spaces</li> <li>b) they are in different logical addresses</li> <li>c) they have a protection algorithm</li> <li>d) every address generated by the CPU is being checked against the relocation and limit registers</li> </ul>	use:
6. When memory is divided into several fixed sized partition each partition may contain  a) exactly one process b) at least one process c) multiple processes at once d) none of the mentioned	ns,
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bounded by	e degree of multiprogramming is			
a) the number of partitions c) the memory size	, — — — — — — — — — — — — — — — — — — —			
	d) all of the mentioned			
8. The first fit, best fit and worst fit are strategies to select a a) process from a queue to put in memory b) processor to run the next process c) free hole from a set of available holes d) all of the mentioned				
<ul><li>9. In internal fragmentation, and:</li><li>a) is being used</li></ul>	memory is internal to a partition			
c) is always used	b) is not being used d) none of the mentioned			
<ul><li>10. A solution to the problem</li><li>a) compaction</li><li>c) smaller memory space</li></ul>	n of external fragmentation is: b) larger memory space d) none of the mentioned			
<ul> <li>11. Another solution to the problem of external fragmentation problem is to: <ul> <li>a) permit the logical address space of a process to be noncontiguous</li> <li>b) permit smaller processes to be allocated memory at last</li> <li>c) permit larger processes to be allocated memory at last</li> <li>d) all of the mentioned</li> </ul> </li> </ul>				
12. If relocation is static and is done at assembly or load time, compaction				
<ul><li>a) cannot be done</li><li>c) must not be done</li></ul>	b) must be done d) can be done			
<ul> <li>13. The disadvantage of moving all process to one end of memory and all holes to the other direction, producing one large hole of available memory is:</li> <li>a) the cost incurred</li> <li>b) the memory used</li> <li>c) the CPU used</li> <li>d) all of the mentioned</li> </ul>				
14 is generally fas				
a) first fit, best fit, worst fit. c) worst fit, best fit, first fit	b) best fit, first fit, worst fit d) none of the mentioned			
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# 15. External fragmentation exists when:

- a) enough total memory exists to satisfy a request but not contiquous
- b) the total memory is insufficient to satisfy a request
- c) a request cannot be satisfied even when the total memory is free
- d) none of the mentioned

### 16. External fragmentation will not occur when:

- a) first fit is used b) best fit is used
- c) worst fit is used d) no matter which algorithm used, it always occur

## 17. Sometimes the overhead of keeping track of a hole might be:

- a) larger than the memory
- b) larger than the hole itself

c) very small

d) all of the mentioned

## 18. When the memory allocated to a process is slightly larger than the process, then:

- a) internal fragmentation occurs
- b) external fragmentation occurs
- c) both internal and external fragmentation occurs
- d) neither internal nor external fragmentation occurs

# (MCQs) Group 2: Swapping processes

#### 1. Address Binding is:

- a) going to an address in memory
- b) locating an address with the help of another address
- c) binding two addresses together to form a new address in a different memory space
- d) a mapping from one address space to another

### 2. Binding of instructions and data to memory addresses can be done at:

a) Compile time

b) Load time

c) Execution time

d) All of the mentioned

# 3. If the process can be moved during its execution from one memory segment to another, then binding must be:

- a) delayed until run time
- b) preponed to compile time
- c) preponed to load time
- d) none of the mentioned

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4. Dynamic loading is:  a) loading multiple routines dynam b) loading a routine only when it is c) loading multiple routines randon d) none of the mentioned	called	
5. The advantage of dynamic load a) A used routine is used multiple to b) An unused routine is never load c) CPU utilization increases d) All of the mentioned	times	The second second
6. The swaps proceed a) Memory manager c) CPU manager	esses in and out of the memor b) CPU d) User	y.
-	the lower priority process to ess. This swapping is called: b) pull out, push in d) none of the mentioned	
and in again. a) can	b) must	
c) can never	d) may	
9. In a system that does not sup a) the compiler normally binds syn addresses b) the compiler normally binds syn addresses c) the loader binds relocatable add d) binding of symbolic addresses takes place during execution	nbolic addresses to relocatable  mbolic addresses to physical  dresses to physical addresses	
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f	17. The backing store is general a) fast disk b) disk large enough to accommoder or all users c) disk to provide direct access to all of the mentioned	date copies of all memory imag	es
	16. Swapping requires aa) motherboard c) monitor	b) keyboard d) backing store	
	15. If execution time binding is k be swapped to a differer a) has to be c) must	peing used, then a process at memory space. b) can never d) may	
	<ul><li>14. The size of a process is limit</li><li>a) physical memory</li><li>c) secondary storage</li></ul>	ed to the size of: b) external storage d) none of the mentioned	
	<ul><li>13. The base register is also kno</li><li>a) basic register</li><li>c) relocation register</li></ul>		
	<ul><li>12. The run time mapping from vidone by a hardware device calle</li><li>a) Virtual to physical mapper</li><li>c) Memory mapping unit</li></ul>	a the :	
	11. The address loaded into the memory is referred to as:  a) Physical address c) Neither physical nor logical	memory address register of the b) Logical address d) None of the mentioned	
	<ul><li>10. The address generated by th</li><li>a) Physical address</li><li>c) Neither physical nor logical</li></ul>	b) Logical address d) None of the manti-	

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a) wan qui c) cpu	store or in memory and are ready to run.  b) ready queue d) secondary storage  time in a swap out of a running process and occess into the memory is very high. b) waiting
c) execution	d) all of the mentioned  of swap time is time.  b) transfer  d) none of the mentioned
21. Swapping has to execute I/O o a) must c) must never.	be done when a process has pending I/O, or perations only into operating system buffers.  b) can d) may be
22. Swap space is all a) as a chunk of disk c) into a file system	b) separate from a file system d) all of the mentioned