Started on	Thursday, 12 June 2025, 2:52 PM			
State	Finished			
Completed on	Thursday, 12 June 2025, 3:01 PM			
Time taken	8 mins 30 secs			
Marks	23.00/25.00			
Grade	92.00 out of 100.00			
Question 1				
Complete				
Mark 1.00 out of 1.00				
What happens when	a program tries to access memory beyond its allocated space?			
a. Deadlock				
b. Memory Lea				
c. Segmentation				
d. Stack Overfl	wo			
Question 2				
Complete				
Mark 1.00 out of 1.00				
Which of the following	ng best describes internal fragmentation?			
a. Memory lea	ks			
	nory outside allocated blocks			
	nory within allocated blocks			
d. Cache misse	S			
Question 3				
Complete				
Mark 1.00 out of 1.00				
Which of the following	og is NOT a valid memory allocation function in C/C++?			
Which of the following is NOT a valid memory allocation function in C/C++?				
a. realloc				
b. malloc				
oc. calloc				
d. alloc				

Question 4	
Complete	
Mark 1.00 o	ut of 1.00
The leas	st recently used (LRU) algorithm is a type of:
a	Page replacement algorithm
	Memory allocation
	Garbage collection algorithm
O a.	Segmentation algorithm
Question 5	
Complete	
Mark 1.00 o	ut of 1.00
What is	a "dangling pointer"?
a.	A pointer to a null value
b.	A pointer to garbage value
O c.	A pointer to the stack
d.	A pointer to a freed memory location
Question 6	
Complete	
Mark 1.00 o	ut of 1.00
Memor	y compaction is used to solve:
О а.	Page fault
b.	External fragmentation
O c.	Internal fragmentation
d.	Stack overflow
_	
Question 7	
Complete	
Mark 1.00 o	ut of 1.00
Which o	of the following is a sign of stack overflow?
() a.	High CPU usage
	Function recursion without base case
	Unfreed memory
· · ·	
	Infinite loop

	· · ·	
Question Complete	3	
Mark 1.00	out of 1.00	
Garbag	e collection is used in languages like Java to:	
a.	Automatically free unused memory	
	Reuse variables	
O c.	Prevent memory leaks	
	Allocate memory faster	
Question		
Complete		
Mark 1.00	out of 1.00	
What is	the purpose of the `malloc()` function in C?	
О a.	Free memory	
	Allocate memory on stack	
	Allocate memory on heap	
	Allocate static memory	
Question '	10	
Complete		
Mark 1.00	out of 1.00	
Which	memory is used for function call and local variable storage?	
a.	Stack	
O b.	ROM	
O c.	Cache	
O d.	Неар	
Question '	11	
Complete		
Mark 1.00 out of 1.00		
Wark 1.00 V		
A TLB (Translation Lookaside Buffer) improves:	
a.	Virtual to physical address translation	
	Cache access time	
О с.	Stack speed	
	Swapping performance	
_ u.		

	, <u> </u>		
Question 12	2		
Complete			
Mark 1.00 ou	t of 1.00		
What is a	a benefit of using dynamic memory allocation?		
О а.	No fragmentation		
b.	Flexibility at runtime		
○ c.	Faster access time		
O d.	Less memory usage		
Question 13	3		
Complete			
Mark 1.00 ou	t of 1.00		
In virtual	memory, what happens when a required page is not in memory?		
a.	Page Fault		
O b.	Segmentation Fault		
O c.	Stack Overflow		
O d.	TLB Miss		
Question 14	4		
Complete			
Mark 1.00 ou	t of 1.00		
Which of	f the following causes a memory leak?		
О а.	Double freeing a pointer		
	Allocating memory without freeing it		
	Page fault		
	Stack overflow		
Question 1	5		
Complete			
Mark 1.00 out of 1.00			
What happens if you `free()` an already freed pointer in C?			
Triat happens it you meet an aneday need pointer in C:			

a. Memory leak

b. Undefined behavior (possible crash)

d. Nothing

Question 1	16				
Complete					
Mark 1.00 c	out of 1.00				
What k	ind of memory allocation is used for recursion?				
vviiat K	ind of memory anocation is used for recursion:				
○ a.	Неар				
O b.	ROM				
O c.	Swap space				
d.	Stack				
Question 1	17				
Complete					
Mark 1.00 c	out of 1.00				
Segmei	ntation differs from paging because segmentation:				
a.	Supports logical divisions like functions, arrays				
b.	Uses TLB				
О с.	Is managed by hardware				
	Has fixed-size blocks				
Question 1	18				
Complete					
Mark 1.00 c	out of 1.00				
Copyin	g garbage collectors work by:				
O a	Swapping memory blocks				
b.					
О с.	Deleting unused files				
	Freeing memory manually				
Question 1					
Complete	19				
Mark 1.00 c	out of 1.00				
WIGIK 1.00 C					
What d	oes the operating system use to translate virtual addresses to physical addresses?				
О а.	Program Counter				
b.	Page Table				
О с.	Memory Table				
) d.	Stack Pointer				
J 4.					

Mark 0.00 out of 1.00

Which of the following helps avoid memory leaks in C++?

- a. Raw pointers
- b. Void pointers
- c. Smart pointers
- d. Global variables

Question 22

Complete

Mark 1.00 out of 1.00

The heap memory is primarily used for:

- a. Temporary variables
- b. Static variables
- c. Dynamic memory allocation
- d. Code segment

Question 23

Complete

Mark 1.00 out of 1.00

The stack grows:

- a. Both
- b. Downward in memory
- c. Randomly
- Od. Upward in memory

12/25, 3:01	01 PM	Day71_OS_Quiz: Attempt review			
Question 2	24				
Complete					
Mark 1.00 d	Mark 1.00 out of 1.00				
Which	memory management technique allows non-contiguou	us memory allocation?			
О a.	Segmentation				
b.	. Both A and B				
○ c.	Paging				
O d.	. Stack Allocation				
Question 2					
Complete					
Mark 0.00 c	out of 1.00				
VA/L-1	The state of the s				
Which	Which data structure is used for memory page replacement algorithms?				

- a. Linked List
- b. Hash Table
- oc. Queue
- d. Stack