Started on	Thursday, 12 June 2025, 2:52 PM
State	Finished
Completed on	Thursday, 12 June 2025, 3:06 PM
Time taken	14 mins 8 secs
Marks	21.00/25.00
Grade	<b>84.00</b> out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
Copying garbage col	lectors work by:
<ul><li>a. Freeing men</li></ul>	nory manually
b. Deleting unu	used files
c. Copying read	chable objects to a new memory area
Od. Swapping m	emory blocks
11 3	
Question 2	
Complete	
Mark 1.00 out of 1.00	
Wark 1.00 Out 01 1.00	
The heap memory is	primarily used for:
,	
a. Static variable	les .
○ b. Code segme	nt
_	mory allocation
d. Temporary v	
u. Temporary v	diables
a 3	
Question 3	
Complete	
Mark 1.00 out of 1.00	
The least recently use	ed (LRU) algorithm is a type of:
The least recently use	to (Erro) digoritim is a type of.
a. Page replace	ement algorithm
<ul><li>b. Garbage coll</li></ul>	
c. Memory allo	
<ul><li>d. Segmentation</li></ul>	on algorithm

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Question 4	
Complete	
Mark 1.00 out of 1.00	
Which of the following is a sign of stack overflow?	
a. Infinite loop	
<ul><li>b. Function recursion without base case</li></ul>	
c. Unfreed memory	
Od. High CPU usage	
Question 5	
Complete	
Mark 1.00 out of 1.00	
What does the operating system use to translate virtual addresse	es to physical addresses?
a. Page Table	
b. Memory Table	
c. Stack Pointer	
Od. Program Counter	
•	
Question 6	
Complete	
Mark 1.00 out of 1.00	
What kind of memory allocation is used for recursion?	
○ a. Heap	
b. ROM	
○ c. Swap space	
d. Stack	
Question 7	
Complete	
Mark 1.00 out of 1.00	
A TLB (Translation Lookaside Buffer) improves:	
a. Swapping performance	
b. Virtual to physical address translation	
c. Cache access time	
d. Stack speed	
a. stack speed	

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Question Complete Mark 1.00	
In virtu	al memory, what happens when a required page is not in memory?
	Stack Overflow
	Segmentation Fault
	Page Fault TLB Miss
o u.	
Question	)
Complete	
Mark 1.00 d	but of 1.00
Which	memory management technique allows non-contiguous memory allocation?
<ul><li>a.</li></ul>	Both A and B
O b.	Segmentation
	Paging
O d.	Stack Allocation
Question '	10
Complete	
Mark 0.00 o	out of 1.00
What h	appens if you `free()` an already freed pointer in C?
О а.	Undefined behavior (possible crash)
<ul><li>b.</li></ul>	Nothing
O c.	Segmentation fault guaranteed
O d.	Memory leak
Question '	11
Complete	
Mark 1.00	out of 1.00
Which	of the following best describes internal fragmentation?
<ul><li>a.</li></ul>	Unused memory outside allocated blocks
<ul><li>a.</li><li>b.</li></ul>	Unused memory outside allocated blocks Memory leaks

Complete	2			
Mark 1.00 o	Mark 1.00 out of 1.00			
Which o	data structure is used for memory page replacement algorithms?			
○ a.	Hash Table			
O b.	Linked List			
○ c.	Stack			
<ul><li>d.</li></ul>	Queue			
Question 1	3			
Not answer	ed ed			
Marked out	of 1.00			
What is	a "dangling pointer"?			
○ a.	A pointer to garbage value			
	A pointer to a freed memory location			
	A pointer to a null value			
	A pointer to the stack			
Question 1	4			
Complete				
Mark 1.00 o	ut of 1.00			
Memory	y compaction is used to solve:			
О а.	Stack overflow			
<ul><li>a.</li><li>b.</li></ul>	Stack overflow External fragmentation			
<ul><li>a.</li><li>b.</li><li>c.</li></ul>	Stack overflow External fragmentation Page fault			
<ul><li>a.</li><li>b.</li><li>c.</li></ul>	Stack overflow External fragmentation			
<ul><li>a.</li><li>b.</li><li>c.</li></ul>	Stack overflow External fragmentation Page fault Internal fragmentation			
<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul>	Stack overflow External fragmentation Page fault Internal fragmentation			
a. b. c. d.	Stack overflow External fragmentation Page fault Internal fragmentation			
a. b. c. d.	Stack overflow External fragmentation Page fault Internal fragmentation			
a. b. c. d.	Stack overflow External fragmentation Page fault Internal fragmentation  5  ut of 1.00  the purpose of the `malloc()` function in C?			
a. b. c. d.	Stack overflow External fragmentation Page fault Internal fragmentation  5  ut of 1.00  the purpose of the `malloc()` function in C?  Allocate memory on heap			
a. b. c. d.	Stack overflow External fragmentation Page fault Internal fragmentation  5  ut of 1.00  the purpose of the `malloc()` function in C?			

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Od. Allocate static memory

Question <b>1</b>	6
Complete	
Mark 1.00 o	ut of 1.00
Which n	nemory is used for function call and local variable storage?
○ a.	Неар
<ul><li>b.</li></ul>	Stack
○ c.	ROM
O d.	Cache
Question 1	7
Complete	
Mark 1.00 o	ut of 1.00
The stac	k grows:
О a.	Randomly
	Upward in memory
О с.	
	Downward in memory
Question 1	8
Complete	
Mark 1.00 o	ut of 1.00
Segmen	tation differs from paging because segmentation:
О a.	Has fixed-size blocks
	Supports logical divisions like functions, arrays
	Is managed by hardware
	Uses TLB
Question <b>1</b>	9
Not answere	
Marked out	of 1.00
What is	a benefit of using dynamic memory allocation?
О a.	Less memory usage
	Faster access time
	Flexibility at runtime

Od. No fragmentation

Question 2	20			
Complete Mark 1.00 out of 1.00				
Which (	of the following causes a memory leak?			
VVIIICIT	of the following causes a memory leak.			
<ul><li>a.</li></ul>	Allocating memory without freeing it			
O b.	Double freeing a pointer			
○ c.	Page fault			
O d.	Stack overflow			
Question 2	:1			
Complete	. (400			
Mark 1.00 c	rut of 1.00			
Garbag	e collection is used in languages like Java to:			
	Automatically free unused memory			
O b.				
	Allocate memory faster			
○ d.	Prevent memory leaks			
Question 2	22			
Complete				
Mark 1.00 c	out of 1.00			
The OS	swaps memory pages to disk to:			
<ul><li>a.</li></ul>	Manage memory more efficiently			
<ul><li>b.</li></ul>	Free CPU registers			
O c.	Increase cache size			
O d.	Improve network speed			
Question 2	20			
Complete	. <b>.</b>			
Mark 1.00 c	out of 1.00			
Wark 1.00 C				
Which o	of the following is NOT a valid memory allocation function in C/C++?			
<ul><li>a.</li></ul>	realloc			
O b.	malloc			
<ul><li>c.</li></ul>				
	calloc			

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Question 2	n 24		
Complete	te		
Mark 0.00 o	00 out of 1.00		
What h	t happens when a program tries to access memory beyond its allocated	I space?	
<ul><li>a.</li></ul>	a. Deadlock		
<ul><li>b.</li></ul>	b. Memory Leak		
O c.	c. Stack Overflow		
O d.	d. Segmentation Fault		
Question 2	n 25		
Complete	te		
Mark 1.00 o	00 out of 1.00		
Which o	ch of the following helps avoid memory leaks in C++?		
○ a.	a. Void pointers		
b.	b. Smart pointers		
O c.	c. Global variables		
<ul><li>d.</li></ul>	d. Raw pointers		