CSE321 Quiz 4 Total Marks: 20

Mana	ID:	Sec:
Name:		000.

[CO6] Consider a computer with a main memory of size 4 and a page reference string of 7 pages: [5, 5, 1, 5, 2, 1, 3, 3, 0, 7, 0, 1]. The page reference string represents the order in which the pages are accessed by a program. Apply LRU algorithm to simulate the page replacements that occur when the main memory can hold at most 4 pages at a time. Record the number of page faults that occur. [5 Marks]

	5	5	1	5	2	1	3	3:	0	7	01	11
\int							3	2	3	3	3/	3
							2	-	2	7	7	7
52					2	2	1	2		,		+
12			١			ſ	1	1	1	1		Ш
<u> </u>	_	5	٤	F		5	5	5	6	0	0	0
94	5	9	U	5	6		1	1	Pk	1	hit	- Wit
	*	hit	¥	hit	OK.	hit	*	hil	*	N.	73(1	. 514

Number of faults: 6

[CO6] Consider a system with 120MB of available memory and a list of 10 processes with the following memory requirements. Using a variable-sized partitioning approach, allocate memory to these processes using the First Fit, Best Fit, and Worst Fit algorithms and compare the results. Fill in the blanks with information of the original block number where each process has been assigned to. Write down 'N/A' if you are unable to allocate any location. Finally mention the most suitable algorithm in this scenario.

1				[15	Marks]
P4	250 240 24 24 24 24 24 25 24 25 24 25 26 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	1 /25/MB/ 2 /20/MB/ 3 43/MB/ 4 /4 MB	P8 26 1 P8 26 1 P4 P5	THE THE STATE OF T	25 18 5 16 15 0 41 K 11 C
Processes	Size	Frist fit	Best fit	Worst fit	1
P1	25 MB	1	1	3	-
P2	20 MB	2	2	4	1
Р3	10 MB	3	4		1
P4	5 MB	3	4	2	-
P5	5 MB	3	4	3	{
Р6	10 MB	3	4	3	
P7	15 MB	4	3	0	
Р8	10 MB	3	3	2	
Р9	5 MB	4	<u>3</u>	9	
P10	15 MB	N/A	N/A	N/A	

All the algorithm will perform the same in this given scenario.

Bonus Task: Make a unique meme using your own creativity revalant to CSE321 course.

[2.5 Marks]