## 2014 - 컴퓨터구조 기말고사 답안지

), 학년 ( ), 학번 ( ), 이름 ( 수강반 ( ), 학부/학과 ( )

## 2, 5, 8, 9, 10 번의 답은 뒷면에 쓸 것.

1. (1) **(** ) ~ **(** )

1-(2) [표 2]

Virtual Address	Virtual page number	Page fault (Y/N)	Physical page number	Physical Address
4A38				
3870				
20B0				
67A4				
2220				
01E0				

3-(1)  $[ \pm 5 ]$  Initial state of the data cache

	V	Tag	Data	٧	Tag	Data
0	1	0000		1	1001	
1	1	0000		0	1100	
2	1	0100		1	1000	
3	1	1111		0	0010	

[丑 1] Page table

1-(3) [표 3]

	Valid	PPN
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Instructions	<b>Tag</b> (이진수)	Index (십진수)	н/м
lw \$1, 0x068(\$0)			
lw \$2, 0x114(\$0)			
lw \$3, 0x030(\$0)			
lw \$4, 0x120(\$0)			
lw \$5, 0x00c(\$0)			
lw \$6, 0x024(\$0)			

3-(3)  $[ \pm 7 ]$  Final state of the data cache

	٧	Tag	Data	V	Tag	Data
0						
1						
2						
3						

1	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

	IF	ID	EX	MEM	WB
6-(1)					or
6-(2)					٦w
6-(3)					add
6-(4)					slt

7-(1)	ForwardA =	ForwardB =
7-(2)	ForwardA =	ForwardB =