國立臺灣科技大學答案卷	
科目 計算机組織 任課教師 新碧如 系所班組別 四省工二	////
學號 895/6012 姓名 万州主新 考試日期 97年 6	
從此處開始寫起。試卷用紙務須節用,非經主試認可不得續用其他紙張作答。	
1. beg $A(1) = X$ $A(2) = 0$ $A(3) = X$ $A(4) = 0$	$\alpha(\xi) = 1$
b = ((1) = 0 b(2) = 1 b(3) = 1 b(4) = 1	b (k) = 0
1617 = 1/ 162 102 5 / 162 5	1(5) = 0
2m 9(1) - x 9(2) = 1 9(3) - 1 5(4) - 0	
2. A. older Time 200 = 400 , 600 800 1000 12	1430 1600 1800
1W \$10,1000(\$20) [ZF - [Z5] - [XX] - [MEM/4, [WB]	
5 w \$10 1000(4)0) 170 d Tot 5 to African (MB)	
addin \$20,\$20,4 III- 1111 120 / Williams	-[208]
bre \$20,\$0,60Py 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-MIW- W/B)
	5EX-1=17-148/
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Su \$10,1000(\$20) (日春SW在 ID stage 書本10要筆 1W WB見)	1 n \$ 10,1000 (\$20) / faddin Wt
addin \$20, \$20, -4	- 10 \$ 10 ,100 (p29) (7 000 th VV t
Stall + 2 (Que 为多多20要等 Olddin W13元)	
bne \$20,80,00g	
3. Instruction 17 M, 7 M2 F M3	
Loads 150/0 6 30d, 4 32 do 3	
Stores 16% 4 30% 4 28% 3	
R-type 600/0 4 26 do 3 300/0 3	
Branch/jump 100/0 3 150/0 3 100/0 3	
Avg CPI 1 4,05 3.6 3	
MIPS 2000 7000 2000	24123-1104
$CPI_{M2} = 0.15 \times 5 + 0.15 \times 4 + 0.6 \times 4 + 0.1 \times 3 = 0.75 + 0.6 + 3$ $CPI_{M2} = 0.3 \times 4 + 0.3 \times 4 + 0.25 \times 3 + 0.16 \times 3 = 1.2 + 1.2 + 0.$	
$\frac{CPLM3 = 3}{9}MIPS_{M1} = \frac{8.1 \times 10^{9}}{4.05 \times 10^{6}} = 2000 MIPS_{M2} = \frac{11.2 \times 10^{9}}{3.6 \times 10^{6}}$	= 2000 MIPC = 6×109 = 2001
4,05×10	17()W3 3×10
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add \$50,\$51,	\$52 1/1 11	1 1/2	211 5 14/4	11: 60215	7
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5. Taken 9 12, 40:					36.)
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