

Quiz 4

رقم الشعبة: ١

رقم التسجيل:

KEY

الاسم:

Instructions: Time 5 minutes. Closed books and notes. No calculators. Please answer all problems in the space provided. **No questions are allowed.**

<Good Luck>

Q. For the following MIPS instruction sequence, what is the type of pipeline hazard in this sequence?

data dependence

load-use. Also, using pipeline diagrams, show how to solve this hazard and find the

number of cycles needed to execute this sequence 7.

		1	2	3	4	5	6	7
lw	\$R2, 4(\$R1)	F	D	E	M	W		
add	\$R3, \$R1, \$R2		F	D	D	E	M	W