## ONLINE QUIZ AY2019/2020 Semester 2

## **CS2100 — COMPUTER ORGANISATION**

11 March 2020

Total mark

## ANSWER SHEET

<i>Question</i> Student	<i>U: Personal Particulars</i> Number	[1 mark] Tutorial Grp	/40
A			
Ouestion	1: Warmup Questions	·	[8 marks]
a)			[2 marks]
b)			[2 marks]
c)			[2 marks]
d)			[2 marks]
Question		# sum = 0	[8 marks]
loop:	ADD \$2, \$0, \$0, 0 BEQ \$1, \$0, cont BEQ \$0, \$0, end	<pre># i = 0 # while (sum == 0) continu # otherwise, end</pre>	e

break: BEQ \$0, \$0, loop # goto loop

end:

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[14 marks]

exadecimal	SIMP	
x402F		[2 marks]
	L: ADD \$2, \$2, \$2, 0	[2 marks]
x241F		[2 marks]
xE08A		[2 marks]
	BEQ \$1, \$1, L	[2 marks]
	E:	
	x402F x241F	L: ADD \$2, \$2, \$2, 0  x241F  xE08A  BEQ \$1, \$1, L

b) (	(i)	[2 marks]	(ii)	[2 marks]

Question 4: Datapath and Control

[9 marks]

[1 mark]
[7 marks]

Feedback: this will not affect your marks in any way

