6

Microprocessors Lab ECSE426 McGill University Demo Sheet – Lab 1

		Student ID: Student ID:
Part I	Demonstrate correct functionality of the code as follows:	(1 Mark)
	The output of the assembly encryption subroutine matches the TA and key	(0.4 mark)
	 The assembly decryption subroutine faithfully yields back the origi Assembly subroutines adhere to the calling convention and give cowithin C 	
	Output of the C code matches the assembly code	(0.1 marks)
2.	TEA algorithm implementation discussion. Students should explain the instruction choices.	code clearly and their (1 Mark)
3.	Correct test bench and initialization subroutines (assembly and C), follo functions	owing the order of calling the (0.5 Marks)
4.	Coding requirements and optimization	(2 Marks)
	Grades awarded based on best results between groups. (Top 5 groups get highest mark, second top 5 groups get 75% of the marksetc.)	
	Set simulation speed at 25MHz. Measure the execution time and recommessage/keys among all groups)	rd it for the same combination of
	Reported Execution time for Encryption is µsec and for decry	yption is µsec (0.5 marks)
	Number of registers used is	(0.5 marks)
	Correct usage of stack Code uses minimum memory footprint and/or uses modular design tec	(0.5 marks) hniques (0.5 marks)
5.	Code documentation. Use of clear functional comments	(0.5 Mark)
Part II		(1 Mark)
6.	Students were able to retrieve the message and crack the keys associa	ted with their group (0.5 marks)
7.	Demonstrate correct understanding of basic C programming	(0.5 marks)