School of Information, Computer and Communication Technology Sirindhorn International Institute of Technology **Thammasat University**

ECS204	Quiz	2	Sam	ple
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Rules: Closed book. Closed notes. No Calculator. Do not cheat. Do not panic.

1) Let $R_1 = 20 \Omega$, $R_2 = 30 \Omega$, $R_3 = 50 \Omega$, and $V_{ps} = 100 V$. Obtain the Thevenin and Norton equivalent circuits of the circuit in Figure 1 with respect to terminals C and E. In particular, find the values of V_{TH}, R_{TH} , I_N , and R_N as defined in the lab manual. Put your answers in the table below.



Figure 1 The circuit for verifying Thevenin's and Norton's theorems in Lab 02.

V_{TH}	
R_{TH}	
I _N	
R _N	

2) Suppose that the LOAD in Figure 1 is a 25 Ω resistor. Find the current I_L that passes through the load when the load is connected across terminals C and E. Put your answer in the box below.

IL
