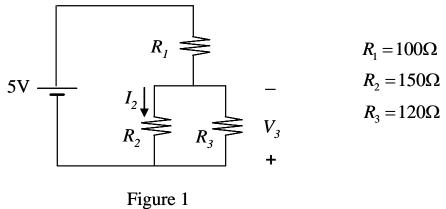
The University of New South Wales

School of Electrical Engineering and Telecommunications

ELEC1111 Electrical and Telecommunications Engineering

Practical Exam - Sample paper

Family name:	
Student number:	
	•
Q1. Set the signal generator to give a si Display this signal on the oscilloscope. Sele to see 5 complete periods of the signal on scale for the oscilloscope and adjust the signed 4 volts peak-to-peak.	ct the oscilloscope time base in order the screen. Select a suitable vertical
Q2. Build the circuit as shown in Figure 1. Mmulti-meter.	leasure the voltage V_3 with the digital



Q3. Again use the same circuit shown in Figure 1, measure the current I_2 with the digital multi-meter.	
Q4. Again use the same circuit shown in Figure 1 but replace the 5V d.c. power supply with the signal from the signal generator (as specified in Question 1 above). Display the voltage across the resistor R_1 on the oscilloscope. Be careful of how you choose the ground.	
Q5. Build the circuit shown below on your breadboard.	
SIGNAL GENERATOR → 10nF	
Set the signal generator to output a square wave of amplitude 4V peak to peak and of frequency 1kHz. Use the oscilloscope to display the signal generator waveform and the voltage across the capacitor with the falling edge of the signal generator waveform centered on the screen with one full cycle of both waveforms displayed.	
Time test finished:	