

Name: _____ Date & Time of Practical: _____.

Student Number: _____ Name of your TA1: _____.

Pre-Practical Question Sheet 3

Instructions: Please print this page, fill out brief answers to the questions below, and turn in the sheet to the box at the front when you arrive to Practicals this week. (Alternatively, you may write out the answers on a blank piece of paper. In this case, be sure to put your name, date & time of Practical at the top, and clearly number each question you are answering.)

1. A **clamp meter** works by measuring magnetic fields around a wire. What magnetic fields might exist in the practicals room?



2. When dealing with a battery, do we expect direct current (DC) (constant voltage vs. time) or alternating current (AC) (sinusoidal voltage vs. time)?



3. When dealing with a wall plug, do we expect direct current (DC) (constant voltage vs. time) or alternating current (AC) (sinusoidal voltage vs. time)?



4. When two resistors, with resistance R_1 and R_2 , are connected in series, what is the resistance, R_{tot} , of the two together?

5. When two resistors, with resistance R_1 and R_2 , are connected in parallel, what is the resistance, R_{tot} , of the two together?

Mark out of 2: