

Experiment 2

Equipment and Instruments in the Lab

Pre-Lab Report

Question 1:

Define the main use of a breadboard.

1- The breadboard is used so we can build our circuits on it. It is a plastic perforated board which has many metal strips that run underneath the board.

Question 2:

How many DC supply are there in the Tektronix PS280 and what are their voltage and current ranges?

2- The Tektronix PS 280 provides one fixed 5 volts DC supply (at a current of 3A) and two other variable DC supplies (that vary from 0 to 30 Volts and current can vary from 0 to 2A) called the master and slave output

Question 3:

What type of electrical measurement can the Fluke 45DMM perform?

3- The Fluke 45 DMM can measure AC and DC voltages and currents. It can also measure resistance, and diode voltage drop.

Question 4:

What type of waveform can the HP Agilent 33120A supply?

4- The HP Agilent 33120A can supply three types of signals which are square, triangle and sine waves with a variable frequency and a variable peak to peak voltage. It can also add to the signal a DC offset voltage and can provide unequal duty cycles

Question 5:

In the Tektronix TDS220 oscilloscope, what type of measurement does the "measure" function provide?

5- The measure function will allow us to directly take a reading from the screen without the need to count the squares and to multiply by the scale.