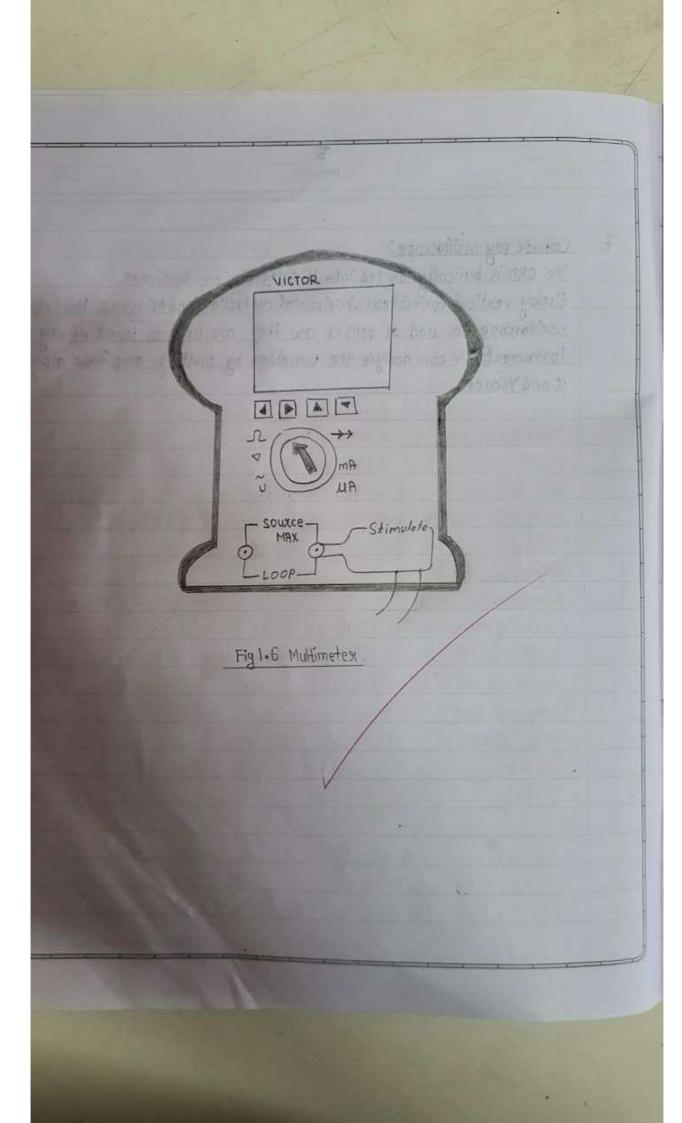
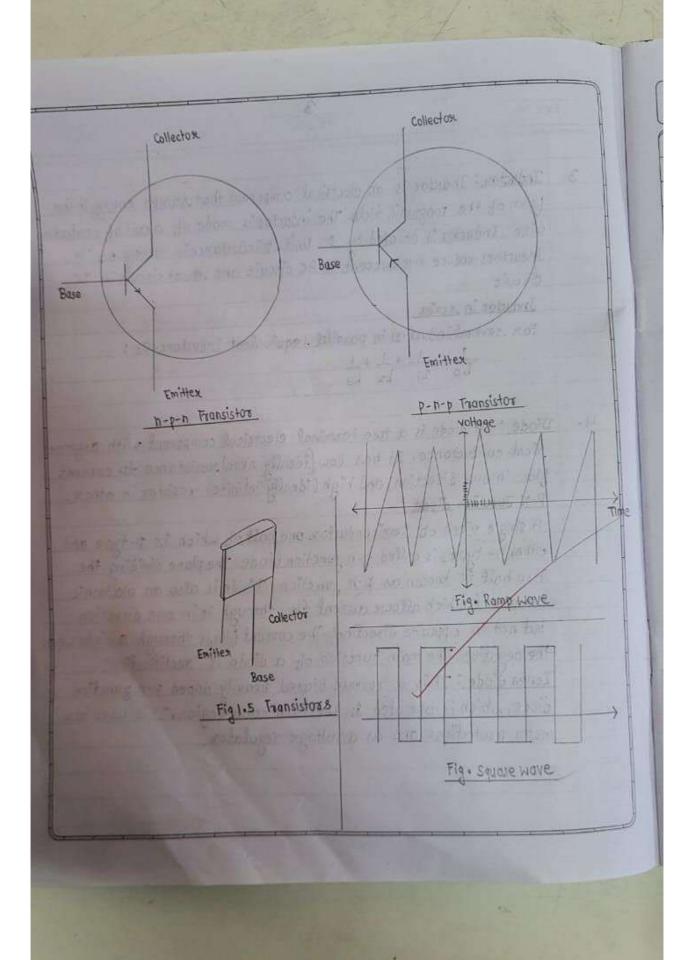
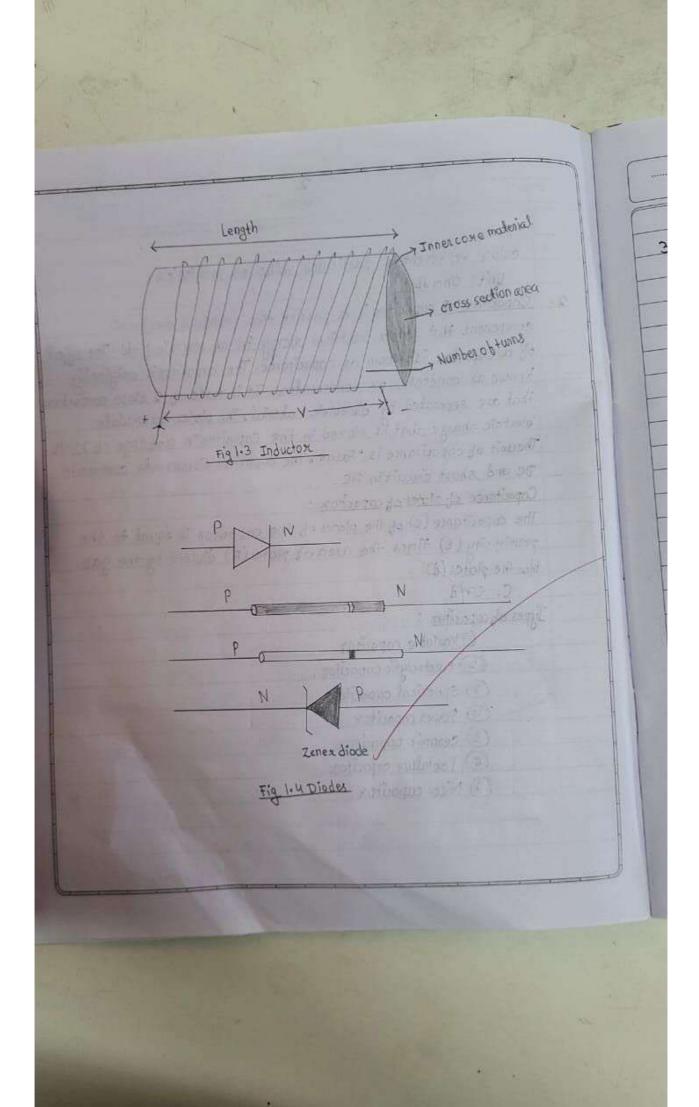
Page No. Date Expt. No. testing circuits q. Breadboard: A breadboard is a solderless device used for temporary prototype with electronics and test circuits can be inter connected by inventing their leads ox terminals into the holes and making connections through wixer were appropriate. The breadboard has a stripe of metal under the board and connect the holes on the top ob the board. The metal stoips are laid out as they are kept. It is the bread and bullon of DIV electronic breadboards, allow beginnen to get acquinted with circuits without the need of soldering. Typically string clips are rated fox 1 amp ob 5V and 0.33A at 15V. The edge of the board has male and female notches. So boards can be elipped tagether to make large board. Conclusion: Following experiment helped us to be familian with basic electronic devices and their functioning as well as some ob their applications Teacher's Signature z.

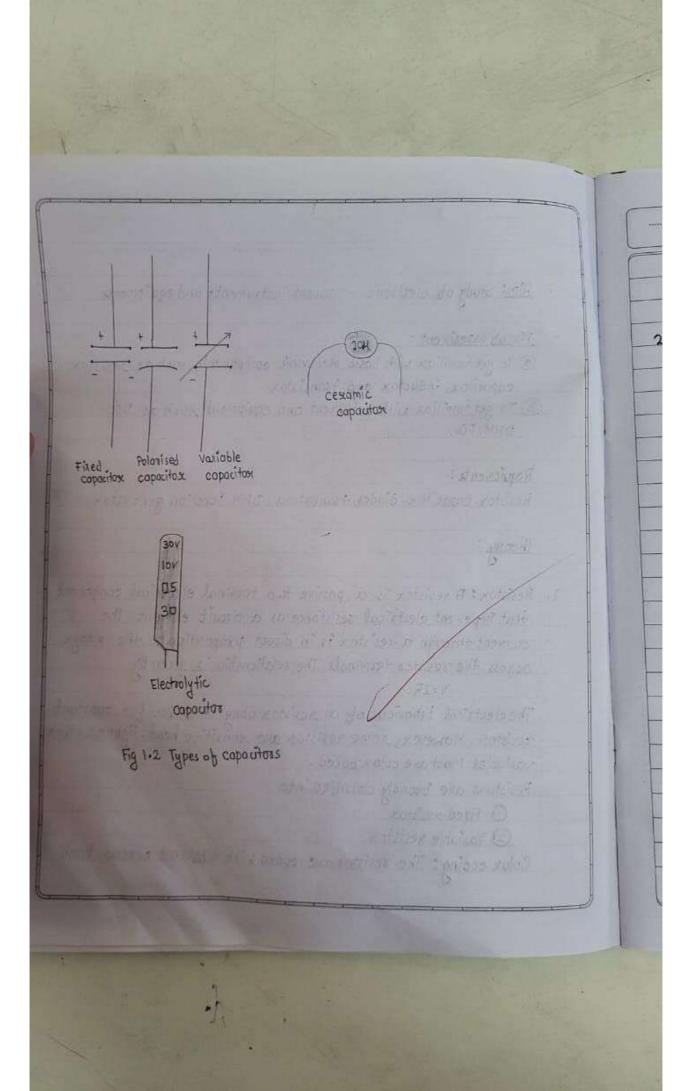




Teacher's Signature ;



Page No. Date Expt. No. color represent a particular volue or multiplier. Unit : Ohm IL Capacitox: A capacitor is a passive two terminal electronic companent that stores electrical energy in an electric field. The effect of a capacitor is known as capacitance. The capacitor is originally known as condensex ox condensatox. It is made of 2 close conductors that are seperated by dielectric material. The plates accumulate electric change that is stoxed in the capacitor in a voltage of I volt The unit of capacitance is "Farad". The capacitor disconnects current in Do and short circuit in AC. Capacitance of plates of capacitox: The capacitance (c) of the plates of the capacitor is equal to the penmittivity (E) times the area of plates (A) divided by the gap Dow the plates (d) C= ER/d Types of capacitor : 1 Variable capacitax (2) Electrolytic capacitor. 3 Spherical capacitos (4) Power capacitox (3) Ceramic capacitose @ Tantalum capacitox. (1) Mica capacitox. Teacher's Signature



Ex	Date Page No.
	Aim: Study ob electronic component instruments and equipments
	Aim of experiment:  (a) To get familiax with basic electronic component such as xesistox.  capacitox, inductox and transistox.  (b) To get familian with instrument and equipment such as DSO,  DMM. FG.
	Reguisments: Resistox, capacitox, diodes, transistox, DMM. function generatox.
	Theony:
1.	Resiston: A mesiston is a passive two terminal electrical component that implement electrical resistance as a circuit element. The cumment through a resistant is in direct proportion to the voltage across the resistor terminals. The relationship is given by V=IR.
	The electrical behavious of a resistant obey thmis law fox constant resistant. However, some resistant are sensitive heat, light ax other variables. Most are color coded.
	Resistons are broadly classified into  O Fixed resistor  O Yariable resistor.
	Colox coding: The resistor are coded with dibberent colours. Each

Colose	Significant fig	uxes Multiply	Tolesance	Temp. coeff.
Black Bxown Red Oxange Vellow Green Blue Violet Grzey	0 1 2 3 4 5 6 7 8 9	0 X10° 1 X10' 2 X10 <sup>2</sup> 3 X10 <sup>3</sup> 4 X10 <sup>4</sup> 5 X10 <sup>5</sup> 6 X10 <sup>6</sup> 7 X10 <sup>7</sup> 8 X10 <sup>8</sup> 9 X10 <sup>9</sup> X10 <sup>-2</sup>	2 (5) 10(K) 0.05(A) 0.05(A) 5(1) 20(m)	100(s) 50(R) 15(P) 25(Q) 20(2) 10(z) 5(H) 1(k)
G bo		Table 1.1		3.31kn 17- 50pps 521, 14-
u sond = 1		Figure		330n.201