

Course book of Electromagnetism Laboratory

Department General Science

Stage second

2022-2023

Experiment No (1) : Color code resistance

Experiment No (2): Verification of ohm's Law

Experiment No (3): Ohm's law Parallel combination of resistors

Experiment No (4) :Measuring capacitance of capacitor

Experiment No (5): to investigate the reactance of capacitance varies with frequency and determine the capacitance of capacitor with constant voltage

Experiment No (6): to show the behavior of an inductance in an a.c circuit is analogous to that of a resistor which obeys Ohms law and hence to measure inductance.

Experiment No (7): investigate how the reactance of an inductor varies with frequency and determine inductance of the inductor.

Experiment No (8): Series resonance frequency

Experiment No (9): To investigate the properties of series resonance circuit.

Experiment No (10): To investigate the parallel of resonance circuit

Experiment No (11): A Simple graphical method for determine both e.m.f and internal resistance of the internal resistance of both

Experiment No (12): A Simple graphical method for determine internal resistance of the voltmeter and e.m.f voltage.

Experiment No (13): Transformation Galvanometer into ammeter

Experiment No (14) : Transformation Galvanometer into voltmeter.

Experiment No (15): The RC time constant

Experiment No (16): Charging and discharging capacitor.

Experiment No (17): RMS value by using Oscilloscope

Dr abbas

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