

PHS 391

Experiment:

SECTION A

Experiment:

OSCILLOSCOPE I

External and Internal Structure of an Oscilloscope.

Function of internal structure of an oscilloscope.

SECTION B

Experiment: 1

Aim: Determination of the Viscosity of a given Liquid by Stokes' Method

Apparatus: A tall jar, given liquid, small steel balls, stop watch and a scale.

Experiment: 2

Aim: Determination of Moment of inertia using a bifilar suspension

Apparatus: Two heavy stand and clamps, two threaded corks, meter rule, brass rod, stop watch, spirit level.

Experiment: 3

Aim: Determination of the Specific Heat Capacity of a bad conductor

Apparatus: Copper calorimeter with stirrer (of thick copper wire), double-walled enclosure with cold water between the walls, thermometer reading $1/10^{\text{th}}\text{°C}$, stop watch, steam heater, and a piece of rubber (e.g. large rubber stopper).

Experiment: 4

Aim: Spectrometer-Angle of Minimum Deviation

Apparatus: Prism , Spectrometer

Experiment: 5

Aim: Determination of the resistivity of a wire using the meter bridge.

Apparatus: meter Bridge, jockey, galvanometer, galvanometer protector, battery, standard resistor and two (2) piece of wire of different diameter.

Experiment: 6

Aim: Frequency of a turning Fork By Changing Length