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Department of Physics

Session 2023 – 24
List of Physics Practical [Program – B.Sc. (PCM), Year – 02nd Year]

S.No.	Object of Practical
01	Study of adiabatic expansion of a gas. and determination of ratio of two specific heats of a gas by Clement and Desorme's method.
02	Heating efficiency of electrical kettle with varying voltages.
03	Refractive index of flint glass prism for sodium light using spectrometer.
04	Resolving power of a prism.
05	Dispersion power of a glass prism using hydrogen discharge tube.
06	Dispersion power of a glass prism using mercury lamp.
07	To determine wavelength of monochromatic light source by Fresnel's biprism.
08	To determine the wavelength of monochromatic light source by Newton's rings.
09	To determine the wavelength of sodium light using a plane transmission grating.
10	To determine the resolving power of a telescope.
11	To study specific rotation (optical activity) of cane sugar solution using Laurent's half shade polarimeter.
12	To determine unknown frequency or to compare frequencies of tow unknown signals by CRO using method of Lissajous figures.
13	The measure AC voltages using CRO and to calculate its deflection sensitivity.
14	To determine wavelength of a LESER beam using plane diffraction grating.
15	To determine velocity of the transverse waves on stretched string using sonometer.
16	To determine frequency of A.C. mains with a sonometer using a magnetic wire.
17	Thermal conductivity of a metallic rod (Copper) by Searle's Apparatus.
18	Thermal conductivity of a bad conductor by Lee's disc method.
19	To determine the pressure coefficient of air by constant volume air thermometer.
20	To verify the laws of probability distribution throwing one coin, two coins and ten coins.
21	To write a program to find minimum and maximum in a given range of the set of numbers.
22	To write a program to find the factorial of given number N.
23	To write a program to check odd and even term of given number.

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