

REV-01
MSP/40/45

2023/01

**M.Sc. PHYSICS
FIRST SEMESTER
DISCIPLINARY MAJOR LAB-I
MSP - 106 [PRACTICAL]**

Duration: 3 hrs.

Full Marks: 35

Perform any one experiment

1. To verify Heisenberg uncertainty principle using a plane transmission grating and He-Ne laser.
2. Find the value of Planck's constant and photo electric wave function of the cathode material using photoelectric cell.
3. Determination of Boltzmann constant by using Boltzmann kit.
4. Measure the numerical aperture and propagation loss in a wave guide using He-Ne laser source.
5. Determination of the ' e/m' ' ratio of electron by magnetron valve method.

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