

BACHELOR OF SCIENCE in PHYSICS (HONS)
SEMESTER – II

THERMAL PHYSICS AND OPTICS PRACTICAL
Paper Code: PHY-202P

PHY-202P THERMAL PHYSICS AND OPTICS

25 MARKS

LABORATORY:

1. To construct a thermocouple with the elements supplied and to determine the melting point of the given substance and the thermoelectric power.
2. Determination of J by Callendar and Barne,s method.
3. Determination of co-efficient of linear expansion of a metallic rod by optical lever method.
4. Verification of Newton,s law of cooling.
5. Determination of apparent expansion of a liquid by weight thermometer method.
6. Determination of frequency of a tuning fork by Melde,s method.
7. Determination of thermal conductivity of a metallic rod by Searle,s method.
8. Determination of the refractive index of the give liquid with help of a plane mirror convex lens and a spherometer.
9. Determination of the refractive index of a given liquid by travelling microscope method.
