## BACHELOR OF SCIENCE in PHYSICS (HONS) SEMESTER – V

## Paper Code: PHY-507 P

## PHY – 507P: PHYSICS PRACTICAL

100 MARKS

## Laboratory :

1. To draw the characteristics of a transistor in the CE and CB configurations.

2. To draw the resonance curve of series and parallel LCR circuit and to determine the Q- factor.

3. Determination of the constant of a ballistic galvanometer by using a standard capacitor.

4. To construct two input OR and AND logic gates using p-n junction transistors and to verify their truth table.

5. To study the performance of NOT circuit using transistors.

6. To draw the characteristics of a Zener diode an to study its use as a voltage regulator.

7. To study solid state half-wave and full-wave rectifiers and to determine the ripple factor and percentage of regulation and different types of filters.

8. To plot the frequency response of an R-C coupled amplifier

(i) without feedback and

(ii) with negative feedback and to determine the bandwidth in each case.

9. Determination of self-inductance by Anderson's method.

10. Determination of mutual inductance by using a Ballistic Galvanometer and to draw the M.O. curve.

11. Determination of the band gape of a p-n junction diode (germanium).

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