

UNIT 4

Part – B

1. Write a note on resistivity measurement by four probe linear method.
2. Write a note on resistivity measurement by four probe Van der paw method.
3. Write a note on hot probe method.
4. Explain C-V Measurement.
5. Write the applications of DLTS.
6. State fundamental laws of UV-Vis absorption spectroscopy.
7. Write the applications of Uv- Vis Spectroscopy.
8. Write a short note on Photoluminescence.

Part –C

1. Explain the basic components of UV-Vis Spectrometer.
2. Define Hall Effect? Derive an expression for Hall coefficient of N type and P- type semiconductor. Describe an experimental set up for the measurement of Hall Voltage and its give its applications.
3. Write the principle and working of Deep Level Transient Spectroscopy (DLTS). Explain the basic components of DLTS.
4. Explain the Resistivity measurement by four probe methods -Linear and Van der Paw Method