AP Important questions :

Unit 1:

1. Schrodinger’s time independent wave equation
2. Derive expression for de Broglie
3. Davisson Germer experiment construction and working
4. Expression for photoelectric equation
5. Construction and working of photoelectric effect.

Unit 2 :

1. LED device. \*\*\*
2. Solar cell. \*\*\*
3. PIN diode
4. Avalanche photodiode
5. Zener diode. \*\*\*
6. PN junction diode
7. Hall effect and hall coefficient. \*\*\*

Unit 3 :

1. Difference between piezo ,pyro ,ferro electric properties.
2. Distinguish soft and hard magnetic materials.
3. Distinguish Type-I and Type-II superconductor.
4. Ferromagnetism.
5. Crystal oscillator.

Unit 4 :

1. SEM
2. TEM
3. XRD
4. Ball milling method
5. Difference between physical and chemical vapour.

Unit 5 :

1. Einstien’s Coefficients
2. Optical fibres
3. Working and construction of Ruby, He-Ne, Nd-YAG lasers

Optional :

1. Sol-gel method
2. Top-down and bottom-up method.
3. PIN diode vs APD diode
4. Dielectric materials.
5. Zener vs PN junction diode.