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For Questions, Notes, Syllabus & Results

PH 8252 Physics for Information Science Important 2Mark questions

Unit I

- 1. What are the drawbacks of classical free electron theory?
- 2. Define the term Fermi temperature.
- 3. Define mobility of electrons.

Unit II

- 1. What is a Semiconductor?
- 2. What are indirect band gap semiconductors? Give example.
- 3. Distinguish between intrinsic and extrinsic semiconductors.

Unit III

- 1. Define magnetic field intensity.
- 2. The critical field for niobium at 0 K is 2 x 10A/m and 1×105 Am/at 8 K. Calculate the transition temperature of the element.
- 3. What is curie temperature?

Unit IV

- 1. What is meant by dielectric loss?
- 2. Write the applications of ferroelectric materials.
- 3. Mention the properties of dielectric materials.

Unit V

- 1. Mention the different types of metallic gases.
- 2. Mention any four methods to produce nano materials.
- 3. What is Kerr effect?