

Physics Assignment No. 1

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Class: EE A, ME A, ME B

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Chapter: Semiconductors

Q1. Differentiate conductor and insulator.

Q2. What is semiconductor? How its resistivity varies with temperature? How many types of semiconductors are there? Explain briefly.

Q3. What is diode?

Q4. What is forward bias and reverse bias?

Q5. What are majority and minority carriers?

Q6. Define diffusion current and drift current.

Q7. What is Fermi level and Fermi energy?

Q8. Explain the working of p-n diode.

Q9. What is transistor?

Q10. Explain briefly solar cell and LED by giving their respective working principle and working.