



**Physics Assignment No. 1**

**Date of Submission: 19.08.2019**

**Class: EE A, ME A, ME B**

**Teacher Incharge: Harpreet Kaur Grewal, Randhir Singh**

**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.

