**Final Term Examination**

**Subject Name: Applied Physics**

**Class: BS SE-1, CS-1**

**Instructor: M Khalid Hamid**

**Total Marks: 50**

**Note: Attempt all Questions**

Q1:

1. How to calculate the magnetic force on current carrying wire? (10 marks)
2. What is the difference between Resistance and Resistivity?

Q2:

1. What is the difference between reflection and refraction? (10 marks)
2. Explain the difference among angle of incident, angle of reflection and angle of refraction with the help of formulae and a single diagram?

Q3:

1. Find the difference between electric potential energy and electric potential? (10 marks)
2. How to find the potential difference between any two points in the electric field lines?

Q4:

1. Compare the depletion regions in forward bias and reverse bias? (10 marks)
2. How reverse breakdown occur in a diode?

Q5:

* 1. Explain the Magnetic field of solenoids? (10 marks)
  2. Explain the Magnetic field of Toroids?