Chandigarh Engineering College-CGC

Landran, Mohali, Punjab

Assignment No.2 **Max Marks: 10**

Subject: Engineering Physics (BTPH101-23) **Semester: 1st / 2nd**

Date on which assignment given: **Date of Submission of assignment:**

Course Outcomes

CO1: Relate the origin of bands inside the solids with the help of crystallography.

CO2: Discuss the working, properties and characterization techniques of semiconductor materials and devices.

CO3: Explain the properties of Magnetic materials and Nanomaterials along with its synthesis.

CO4: Develop the knowledge about the Maxwell equation and Electromagnetic spectrum.

CO5: Appraise the need for quantum mechanics, wave particle duality, uncertainty principle etc. and their applications.

CO6: Examine the laser system, optical fibre in industries, laboratories and in communication.

Bloom's Taxonomy Levels

L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analyzing, L5 – Evaluating, L6 – Creating

Assignment related to COs		Marks	Relevance to CO No.	Bloom's Taxonomy Levels
Q1.	Why superconductors are perfectly diamagnetic in nature? Explain critical temperature and critical magnetic field in a superconductor.	**2.5 marks**	**CO-3**	**L1,L2**
Q2.	Explain the concept of holography.	**2.5 marks**	**CO-6**	**L5**
Q3.	What do you mean by single mode and multimode fibre?	**2.5 marks**	**CO-6**	**L1**
Q4.	Discuss briefly different methods used to synthesize the nanoparticles.	**2.5 marks**	**CO-3**	**L6**