

**LNCT- UNIVERSITY**

**Mid-Semester-II**

June-2024

**B. Tech 1<sup>st</sup> Yr./ Semester-II [CSE]**

**Subject: Advanced Physics & Sustainable Environment [APSE]      Code:CS-201**

**Time: 01hour 30 minutes**

**Max. Marks:20**

**Note: Attempt all questions.**

4. Derive Schrodinger Time independent and Time dependent equation. [CO-2, 7 marks]

**Or**

Explain the construction and working of a He-Ne Laser. [CO-2, 7 marks]

5. Write a short note on nanomaterials and their applications. [CO-4, 7marks]

**Or**

Discuss any seven goals framed to achieve sustainable development. [CO-4, 7marks]

6. Discuss the importance of the Ozone layer in the environment. How is it being depleted? [CO-5, 6 marks]

**Or**

Explain the term 'Global Warming'. How is it disturbing the environmental balance? [CO-5, 6 marks]

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