

Department of Mechanical Engineering
Faculty of Engineering, Integral University, Lucknow
Surprise Test-1
Laser Systems & Applications (IEME-014)

Candidate Name :

Time : 30 Minutes

University Roll Number & Group:

Date :

Maximum Marks : 10

Year : Second Year Mechanical Engineering

Note : Attempt any three question. All question carry equal marks.

1. Explain applications of laser systems in detail, now a days use in your daily life.
2. List all processes associated with laser technology.
3. What is pumping? How can it help in achieving population inversion?
4. What do you mean by modes in a resonator?
5. Describe the DeBroglie theory of matter waves ?