

Tutorial 5, Optics: Lasers

- Q1) What is laser? Discuss at least 4 special characteristics of laser. (3 marks)
- Q2) Explain the difference between Absorption, spontaneous emission, and stimulated emission. (3 marks)
- Q3) Describe the main components of the Lasers and their role in lasing. (6 marks)
- Q4) Explain the working of the He-Ne laser. (6 marks)
- Q5) How laser is different from normal light. (2 marks)

Reference:

Optics by Ajoy Ghatak, 6E
Chapter 27. Lasers: An Introduction (Page 27.3)

- 27.1 Introduction
- 27.1.1 Spontaneous and Stimulated Emission
- 27.1.2 Main components of lasers
- 27.4 The He-Ne laser