

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