Numerical Problems on LASER

- Q.1 .Find the ratio of the population of the two energy states of the active medium producing laser transition between which has wavelength 694.3nm at room temperature. Comment on the result.
- Q.2. A LASER source is emitting a laser beam with an average power of 4.5 mW. Find the number of photons emitted per sec by the laser .The wavelength emitted is 6328 Å .
- Q.3.A pulsed LASER emit photons of wavelength 780.nm with 20 mW average power/pulse. Calculate the number of photons contained in each pulse if pulse duration is 10 ns .