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Prepared By: [www.kukworld.in](http://www.kukworld.in) Spontaneous and Stimulated Emission Spontaneous emission: Spontaneous emission is when an electron in a higher energy level drops down to a lower energy level and a photon is emitted with an ...

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? A laser is a device that generates light by a process called STIMULATED EMISSION. ? The acronym LASER stands for Light Amplification by Stimulated Emission of Radiation 3.

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Characteristics of Lasers, Spontaneous and Stimulated  
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Inversion, Lasing Action, Einstein's Coefficients and Relation between them, Ruby Laser, Helium-Neon Laser, Carbon

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- The efficiency of ruby laser is very low because only green component of the pumping light is used while the rest of components are left unused.
- The laser output is not continuous but occurs in the form of pulses of microseconds duration.
- The defects due to crystalline imperfections are also present in this laser. 26.

B.Tech sem I Engineering Physics U-II Chapter 2-LASER

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Due to the stimulated characteristic of laser light, the laser light is more monochromatic than that of a conventional light. laser radiation -the wavelength spread = 0.001 nm So it is clear that the laser radiation is highly monochromatic.

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