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Unit –I LASER Engineering Physics
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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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• 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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An important class of solid-state lasers are semiconductor lasers. Depending on the semiconductor material used the emission wavelength can be further re?ned by using bandstructure engineering, 0.4 ?m (GaN) or 0.63-1.55 ?m (AlGaAs, InGaAs, InGaAsP) or 3-20 ?m (lead salt).

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