N.	lame: Mohd Zaid Contact: +91- +03+17299
	S.No: 1900B103 Rokino - 03 your writing partner
•	Date
	Page No.
	Assignment 2
	H3SQ III.
	C
	Ever since the advent of the first LASER (Light Amplification by Sumulation Emusion)
	Amplification by Stemelation Emission)
	in 1960 (there has been steady increase in
	the application of losers. Application have kept
	an becoming more and more duiese as The capability of the lasers have increased.
	capalility of the lasers have increased.
	Lasers:
	Lasers deluès caherent, moro cheamatic. vell-contralled
	and proceed direct lines to a principle
	and precisely direct light beams. A priori. Hrefore lasers would seem take paor chaice for general
	Outros il Comingle on la most
	purpose illemination, Laurer, they are ideal for
	Contestibliany signe in space, ctime or particular manely
	Concentrating light in space time or particular manely? Lasers have been regularly used to measure cert
*	acid, there, read, write send messages and
	perform delicale eye aperation.
	Chanacteristics;
	Laser light has four unique characleister what diff.
	it from orderedy light these are
•	Coherence
•	Directionality
-	Mono chromalic
0	High Intensity
-	
6244	
MALE STREET, SANS STREET, STRE	

Application Categories: Oplical Communication The ability to facus laser beams anto very small epots to sutich them off and an letties of times per second makes lasers very important toal Din dellecamunicalia and infamilian processing. In laser supermaked scannor , a rataling nivror scans a red beam while clerks mana packages acrass the beam. tire-aptic communication systems that ilronsmel signal more than a few kelometers also use semicondiules loser beams. The aptical signals are sent at infrared wavelengths of 13 to 16 micrometers, where selica glass fibre are mart trasparent.

This technology has become the backbone of the glabal belecommedia nelvois and most beliephon call bravelling legand the confines of a single town go part of the way haugh optical Indrusy and Manufactures: Lasers are widely used in manufacture eg for cultry, drellig welding, cladding suface treatment, pulsed laser departion, lithography etc. In many cases, relatively kigh optical intensitees are applied to a small apai, leading to intense feating, possibly evaporization and plana generally

Laser-aided manifacting after allows are to produce The essentially same parts with Righer quality and/a lancer cart! Also, it is after passible to realize entirely new parts design on the use of new material Laser are also underly used for alignment puposes. Alignment lasers may emitt a Gaussian laser treem form - ing a crowlay apal on a work piece a line, a crass, or some other pattern. Medical application There us a wide range of medical applications. Often these relate to the Danter parts of the human body, which are easily reached with light; examples are and various sinds of comellor dreaternels. Lasers are used for eurgery, explaiting the passiliebly to cut tissues will causing minimal believing.

Same appraisas can be done with endascaper means, an andoscopy may contain an aplical fibre for delivering light to the aperation scent and anather fibre for imaging, apail from additional channels for mechanist instrumets Varians Scientific Application: to Laser. coaling makes int. passible to bring clarks of others or ions to antremely law surporature.

This has applications in fundametal research and also for industrial purposer.