Requisition of a law eystems: 1) Executation source: Excitation source Active medium Full reflutor Partial reflector Ruonator cavity to be incident on active bredium. the type of energy may be optional energy. Depending on the partiallar type the excitation Louve may be called light source, hat source Or electrical energy source, (which results into optical pumping! Humal pumping or elutrical 1 respectively.

D) Active medium:

It is the medium in which population invacion takes place. The atoms which are supportable for stimulation emission prouse due to population invacion are called action unters.

law cavity (Rumator cavity):

It is bonstituted by two parallel missous at both the ends of the active medium, one of which is full reflector and the other partial reflector, to which laser photons emerge

emitted photons to the active median thereby enchances population inversion or stimulated emission.

There are standing waves set up between the photons moving in opp. I directions in the active medical in order to last max. amplitude fullback, the minor should be adjusted in such a way that distance between them I-mi between think d=mx

where m is seconator cavity mode

Hour of law beam = E = n.hv

n- No. of photone punit volume