

CL36_Q1. Describe in brief the following characteristics of laser.

(i) coherence (ii) Divergence and (iii) monochromaticity

CL36_Q2. Explain why laser is not a perfectly monochromatic sources.

CL36_Q3. A laser beam emits a wavelength of $10.6 \mu\text{m}$. If the duration of the pulse is $0.1 \times 10^{-6} \text{ s}$, calculate the coherence length and line width.

CL36_Q4. List the different types of spectral broadening processes.

CL36_Q5. How does laser differ from an ordinary source of light.