

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 source.

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.

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