

CL4_Q1. Describe the characteristics of a black body spectrum.

CL4_Q2. Find the average energy of an oscillator of frequency $5 \times 10^{12} / \text{s}$ at 300 K treating the oscillator as Planck's oscillator.

CL4_Q3. Using the quantum theory, derive the expression for energy density of blackbody radiation.

CL4_Q4. What was Planck's crucial contribution in explaining Black body spectrum?