20 Wavelengths of different radiations are given below.
$\lambda(A) = 300$ nm, $\lambda(B) = 300$ μm, $\lambda(C) = 3$ nm, $\lambda(D) = 30$ Å
Arrange these radiations in the increasing order of their energies.

21 Calculate energy of one mole of photons of radiation whose frequency is 5×10^{14} Hz. **NCERT Textbook**

22 A 100 watt bulb emits monochromatic light of wavelength 400 nm. Calculate the number of photons emitted per second by the bulb.

23 Yellow light emitted from a sodium lamp has a wavelengh (λ) of 580 nm. Calculate the frequency (ν) and wave number ($\bar{\nu}$) of the yellow light.

24 The Vividh Bharati Station of All India Radio, Delhi, Broadcasts on a frequency of 1368 kHz (kilohertz). Calculate the wavelength of the electromagnetic radiation emitted by transmitter. Which part of the electromagnetic spectrum does it belong to?

25 What is the number of photons of light with a wavelength of 4000 pm that provide 1 J of energy? **NCERT Textbook**