

- 36 A sodium lamp is rated at 40 W. Of the power supplied, 12 % is emitted as yellow light of wavelength  $5.9 \times 10^{-7}$  m.

How many quanta of yellow light are emitted per second from this lamp?

- A  $1.4 \times 10^{19}$       B  $1.2 \times 10^{20}$       C  $3.6 \times 10^{27}$       D  $1.0 \times 10^{40}$