

17. The energy of the most energetic photon in the visible light range (with wavelength of about 400 nm) is about  $E = (1240 \text{ eV} \cdot \text{nm} / 400 \text{ nm}) = 3.1 \text{ eV}$  (using the result of problem 3). Consequently, barium and lithium can be used, since their work functions are both lower than 3.1 eV.