An LED can emit three different colours with three different temperatures (K), i.e., 3000 K (warm white), 4000 K (natural white) and 6000 K (white), with three different radiation energies, $U_{\text{3000 K}}$, and $U_{\text{6000 K}}$ respectively.

(a)	If the intensity is the same for each colour,	then the relative	electrical energy	consumption
900	(U) for each colour is			(1 mark)

- A $U_{3000 \text{ K}} > U_{4000 \text{ K}} > U_{6000 \text{ K}}$
- B $U_{3000 \text{ K}} = U_{4000 \text{ K}} = U_{6000 \text{ K}}$.
- C $U_{3000 \text{ K}} < U_{4000 \text{ K}} < U_{6000 \text{ K}}$
- D There is no correlation in terms of energy consumption.

Your answer

- (b) Which LED emits the greatest proportion of long wavelength radiation? (1 mark)
 - A 3000 K (warm white)
 - B 4000 K (natural white)
 - C 6000 K (white)
 - D They are all the same.

Your answer	

- (c) Which LED emits the greatest proportion of high frequency radiation? (1 mark)
 - A 3000 K (warm white)
 - B 4000 K (natural white)
 - C 6000 K (white)
 - D They are all the same.

NAME OF TAXABLE PARTY.	
Your answer	
COUNTY OF FOREST	

- (d) Which LED emits the greatest proportion of fast photons? (1 mark)
 - A 3000 K (warm white)
 - B 4000 K (natural white)
 - C 6000 K (white)
 - D They are all the same.

2.2	
Your answer	