Jan Thi Long Quantum Physics Ats

(8ai)	$E = \lambda(f_{\infty} - f_{0})$
	h = E
	$= \frac{2 \cdot 0 \times (0^{-14})}{3 \cdot 0 \times (0^{14})}$
	=6-67 X (0-34 Js (3s.f)

 $\frac{\pm mV^2 = E - \emptyset}{\emptyset = E - \pm mV^2}$ 180i

=#(6-667x(0-34)(6.0x(0/4)-\$ 2-0x(0-19 = 2-0 × (0-19, T

Date:

(Bb) EK/10-197

"The work function to is lower than DA

Aurice ets = hf hfo i fo fa

Vo = et eto since light tor used for B has a higher

intensity, it supplies more photons per unit time,
but only I photon is absorbed by I electron, hence F-E of electron is the same

(8di) The dility of electrons to exhibit both particle and more properties

18dir

They are all inversely proportionate to each other.

Subject:	one *	Date:
(8e)	d sind = nx	A) Å
100)	$=\frac{h}{mv}$	1
	V = - 1/2	
	(+ d) (t = d) () d	
	\$ = 3 = 1 W	10 (P. C.)
199)	$ \pm_{o} = hf_{o} $	
	hc = hc, 1/2 0) (1/23) (1/23)	
	to = 2	
	$=\frac{30\times10^{8}}{550\times10^{-9}}$ = 5-45×10 ¹⁴ Hz	3,3,8
19aii)	$\emptyset = hf_0$	·
((3(1))	= 6-63×10-34×5-453×1014	
	Ø = ht. = 6.63 × 10 ⁻³⁴ × 5.458 × 10 ¹⁴ = 3.62 × 10 ⁻¹⁹ J (3s.t)	
	dunte a line than PA	Mily fighter of the fi
19bi)	Energy of photon = he	
	$= 6.63 \times 10^{-34} \times 3.0 \times 10^{8}$)
	$=4.973\times10^{-19}$	A
	KEmax = 4-973×10-19 - 3-65	2×10-19
ag it 1 ches	= 1-35×10-197	d l
. 38X J. +N		1
(961)	$eV_{s} = 1-35 \times 10^{-19}$	19 1 Right Form
1 .	$V_{s} = \frac{1-35 \times 10^{-19}}{1-6 \times 10^{-19}}$	and 27/2 14 - 2.
	=0.845 V (3s.f)	
	and the day of the topped to be and the	हुव १८ मीली ३०० (वे हैं)
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to	versome repulsive forces of positively	harged molli, hence
it ha	y a lover speed.	

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