D	at	e							

Iutorial-I

$$I(a) T_{k} = 20 + 273 = 293$$

$$K = 11,600/n = 11600/2 (low halm of Vb)$$

$$= 5800 Kb$$

$$T_{b} = T_{s} (e^{-T_{k}} - 1)$$

$$= 50 \times 10^{-9} \left(e^{\frac{500 \times 0.6}{293}} - 1 \right)$$

$$= 7.197 \text{ mA}.$$

$$\frac{1606}{1} = \frac{11600}{2} = \frac{180}{80}$$

$$= \frac{1}{100} = \frac{1}{100}$$

Date	Date
7111	- p
T I I T T T T T T T T T T T T T T T T T	JI '
3. In = ImA 0 9a = OVA = 0-72-0.6	=8752
$4a = 0 $ $5I_0 = 0 $ $2 - 0$	1(a) Te = 20
SI, 2-6	
600/n= 11600/2 / few value 111	
75 = 15mA	= = 2 2
81 - 8Vd - 0.8-0.712	
JJ 70-10	
Jul 191 M.	
· AM 14 12 1	
4. (a) I = 0 m +; diale rene	ue blased
000 + 00	= v) (d1)
b) 1002 - 20-71.71V - 10.211	(sixulhoff'
(b) V200 = 20-0.71V = 19.3 V	Hollago (aw)
(1- 28-01× L9.1/1.0×9.=	Variable State of the state of
J = 19.3 = 0.965A.	
20 Aulio e ,	toal
(C) I = 10V = 1.A Center be	south oken.
10220= ALL AMZI &	ranch open.

mull at

14.620

W.