

B20

$$C_T = C_1 + C_2 + C_3$$

$$2.1 \mu = C_1 + .3 \mu + .2 \mu$$

$$C_1 = 1.6 \mu F$$

B18

$$a) \frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2}$$

$$\frac{1}{C_1} = \frac{1}{.41} + \frac{1}{.84}$$



$$b) C_T = C_1 + C_2$$

B.10)

$$V = 10 \text{ V}$$

$$A = .22 \text{ m}^2$$

$$d = .0065 \text{ m}$$

$$Q = C V$$

$$Q =$$

$$U = \frac{1}{2} Q V = \frac{1}{2} C V^2$$

$$C = K \epsilon_0 \frac{A}{d}$$

↑     ↑  
1      $8.85 \times 10^{-12}$

B2 >

$$V = k \frac{Q}{r}$$

$$2 \times 10^3 = V = (9 \times 10^9) \frac{4.9 \times 10^{-6}}{r}$$

B4 >



$$\frac{4.1}{13} = \frac{V}{18}$$