

Q. An Electrician requires a Capacitor of $6 \mu F$ in a circuit across a potential difference of 1.5 kV . A large no. of $2 \mu F$ capacitors which can withstand a potential difference of not more than 500 volt are available. The maximum no. of capacitors required for the purpose are

Sol. Given:-

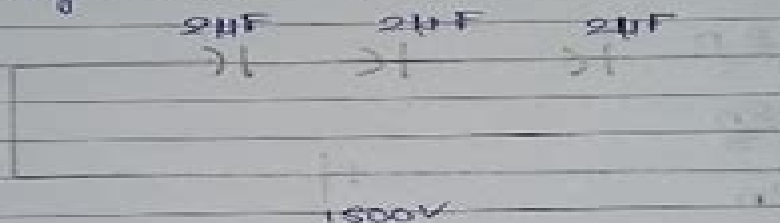
$$C_{\text{net}} = 6 \mu F$$

$$C = 2 \mu F$$

$$V_{\text{applied}} = 1.5 \text{ kV} = 1.5 \times 1000 \text{ volt}$$

$$V_{\text{upper limit}} = 500 \text{ v}$$

$$\therefore \text{No. of Capacitors in one row} = \frac{1500}{500} = 3$$



C_{net} of 1 row,

$$\therefore C_{\text{series}} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

$$= \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$$

$$= \frac{3}{2}$$

$$C_s = \frac{2}{3} \mu F$$

Higher Unit 24thmay Physics 2011

R Sanford



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