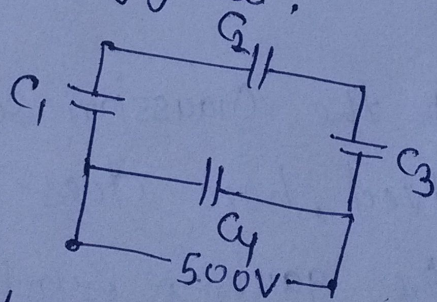


Section - B (each 2 mark)

7. Given a Uniform electric field $E = 5 \times 10^{-3} \text{ i N/C}$. Find the flux of this field through a square of 10cm on a side whose plane is parallel to the flux through the same square if the plane make an angle of 30° with x axis?
8. (i) Write two characteristic of equipotential surfaces
(ii) Draw the equipotential surfaces due to an electric dipole
9. Net capacitance of three identical capacitors in series is 1 μF . What will be their net capacitance if connected in parallel?

Section C (3 Mark each)

10. A network of four capacitors each of 12 μF capacitance. of connected to a 500V supply. as shown in the figure. Determine



- (i) the equivalent capacitance of the network
(ii) The charge on each capacitor