EE - 419 BASIC ELECTRICAL ENGINEERING
PROBLEM SET # 2

1. THREE CAPACITORS $C_1 = 5\mu F$ $C_2 = 10\mu F$ AND $C_3 = 20\mu F$ ARE CONNECTED IN PARALLEL ACROSS A 150V SOURCE. DETERMINE THE (a) TOTAL CAPACITANCE (b) CHARGE ON EACH CAPACITOR (c) THE TOTAL ENERGY STORED IN PARALLEL COMBINATION.

GIVEN:

$C_1 = 5\mu F$ $\quad$ $C_3 = 20\mu F$

$C_2 = 10\mu F$ $\quad$ $V = 150V$

SOLUTION:

a) $C_{TOTAL} = C_1 + C_2 + C_3$

$= (5 + 10 + 20)\,\mu F$

$= \boxed{35\,\mu F}$

b) $Q_1 = C_1 V = 5 \times 10^{-6} F\ (150\ V)$

$= \boxed{0.00075\ C}$

$Q_2 = C_2 V = 10 \times 10^{-6} F\ (150\ V)$

$= \boxed{0.0015\ C}$

$Q_3 = C_3 V = 20 \times 10^{-6} F\ (150\ V)$

$= \boxed{0.003\ C}$

c) $W = (1/2)\, C_{TOTAL}\, V^2$

$= (1/2)(35 \times 10^{-6} F)(150V)^2$

$= \boxed{0.3938 J}$

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