

2025 EDITION – VERIFIED CHAPTERS

CHAPTER 1

P.P.1.1 A proton has 1.602×10^{-19} C. Hence, 6.467 billion protons have
 $= 1.602 \times 10^{-19} \times 6.467 \times 10^{11} = 1.0402 \times 10^{-7}$ C

P.P.1.2 $i = dq/dt = d(20 - 15t + 10t^2)/dt = (-15 + 20t) \text{ mA}$
At $t = 1.0$ sec, $i = -15 + 20 = 5 \text{ mA}$
At $t = 3.0$ sec, $i = -15 + 60 = 45 \text{ mA}$

P.P.1.3 $q = \int i dt = \int_{-1}^2 (20 - 15t + 10t^2) dt = [20t - \frac{15}{2}t^2 + \frac{10}{3}t^3]_{-1}^2$
 $= 8 + 6.25 - 1.67 = 12.58 \text{ C}$

P.P.1.4 (a) $V_{ab} = d\phi/dq = 100/5 = 20 \text{ V}$
(b) $V_{ba} = d\phi/dq = -100/-5 = -20 \text{ V}$

P.P.1.5 $P = i^2 R = (20 - 15t + 10t^2)^2 \times 10^{-3}$
 $= 11.82 \text{ watts}$

(a) $w = q \times \int_{-1}^2 i dt = q \times [20t - \frac{15}{2}t^2 + \frac{10}{3}t^3]_{-1}^2$
 $= 12.58 \times 10^{-7} \times 10 = 1.258 \times 10^{-6} \text{ J}$
 $P = i \times v = 5 \times 20 = 100 \text{ mW}$
At $t = 3$ sec, $P = 45 \times 45 = 2025 \text{ mW}$
 $w = \int_{-1}^2 P dt = \int_{-1}^2 (20 - 15t + 10t^2)^2 dt = 11.82 \text{ watts}$

P.P.1.6 $P = i \times v = 115 \times 12 = 1380 \text{ watts}$
 $w = P \times t = 1380 \times 24 = 33.12 \text{ kJ}$

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