

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 $i = dq/dt = d(20 - 15t - 10t^2)/dt = (-15 - 20t - 20t^2)$ mA
At $t = 1.0$ ms, $i = -15 + 20 \times 10^{-3} = -15 + 0.020 = -14.980$ mA

P.P.1.3 $q = \int i dt = \int_0^2 (20 - 15t - 10t^2) dt = [20t - \frac{15}{2}t^2 - \frac{10}{3}t^3]_0^2$
 $= 8 + 30 - 13.33 = 24.67$ C

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

(b) $V_{ba} = d\phi/dq = 1000 - 10 = -990$ V

P.P.1.5 $i = dq/dt = d(10 \cos 30t)/dt = -30 \sin 30t$ A

SOLUTION MANUAL

$= 31.42$ watts

(b) $w = q \times V = 10 \int_0^2 (20 - 15t - 10t^2) dt = 10 [20t - \frac{15}{2}t^2 - \frac{10}{3}t^3]_0^2$
 $= 10 [8 + 30 - 13.33] = 246.7$ mJ
 $p = vi = 5 \cos(30t) \times (-30 \sin 30t) = -150 \sin 60t$ W
At $t = 5$ ms, $p = -150 \cos(3.14159) = 150$ W
 $w = \int_0^5 150 \cos(3.14159t) dt = 150 \times 0.31831 = 47.746$ mJ

P.P.1.6 $p = vi = 115 \times 12 = 1380$ watts; $w = p \times t$

$W = 1380 \times 24 = 33.12$ kJ, worth \$6000

Fundamentals of

ELECTRIC CIRCUITS

Seventh Edition

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