(i) A) Corrector

$$i(t) = \begin{cases} 0 & t < 0 \\ 50t & A & 05t \le 5ms \\ 0.5 - 50t & A & 5ms \le t \le 10ms \\ 0 & t > 10ms \end{cases}$$

$$u = \begin{cases} 0 & J & 0 < t \\ 25t^2 & J & 0 < t \\ 25t^2 - 0.5t + (2.5 \times 10^{-3}) & J & 5.5 + 5.5 = 5 \\ 0 & J & 0 < t \end{cases}$$

(2) a)
$$i = \frac{dv}{dt} = \frac{(5 \times 10^{-3})[500 + (-2500)e^{-2500 + (-2500)e^{-2500}e^{$$

b)
$$v(100 \mu s) = 500 (100 \times 10^{-6}) e^{-0.25} = 38.99 \text{ mV}$$

 $i(100 \mu s) = (2.5 \times 10^{-3}) e^{-0.25} (1 - 0.25) = 1.46 \text{ mA}$
 $p(100 \mu s) = vi = 56.86 \mu W$

(3) a)
$$L_{2} = \left(\frac{m^{2}}{k^{2}L_{1}}\right) = \frac{(c.9)^{2}}{(c.76)^{2}(c.25\%)} = 50mH$$

$$\frac{M_{1}}{N_{2}} = \frac{L_{1}}{L_{2}} = \frac{25\%}{52} = 2.4$$
b) $P_{1} = \frac{L_{1}}{N_{2}} = 0.2 \times 10^{-6} \text{ Wb/A}$

$$C_{1} = \frac{1}{N_{2}} = 0.2 \times 10^{-6} \text{ Wb/A}$$

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