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2012 ELECTRICAL ENGINEERING - III

Q14 With initial condition $x(0) = 0.5$, the solution of the differential equation $\frac{dx}{dt} + x = t$ is

- (A) $x = t - \frac{1}{2}$ (B) $x = t^2 - \frac{1}{2}$ (C) $x = \frac{t^2}{2}$ (D) $x = \frac{t}{2}$

Q15 The unilateral Laplace transform of $f(t)$ is $\frac{1}{s^2 + s + 1}$. The unilateral Laplace transform of $f'(t)$ is

- (A) $-\frac{s}{(s^2 + s + 1)^2}$ (B) $-\frac{2s + 1}{(s^2 + s + 1)^2}$
 (C) $-\frac{s}{(s^2 + s + 1)^2}$ (D) $-\frac{2s + 1}{(s^2 + s + 1)^2}$

Q16 The average power delivered to an impedance $(4 - j3)\Omega$ by a current $5\cos(100\pi t + 100^\circ)$ A is

- (A) 44.2 W (B) 50 W (C) 62.5 W (D) 125 W

Q17 In the following figure, C_1 and C_2 are ideal capacitors. C_2 has been charged to 12 V before the ideal switch is closed at $t = 0$. The current $i(t)$ for all t is



- (A) zero (B) a step function
 (C) an exponentially decaying function (D) an impulse function

Q18 The $i-v$ characteristics of the diode in the circuit given below are

$$i = \begin{cases} \frac{v - 0.7}{500} & v \geq 0.7 \text{ V} \\ 0 & v < 0.7 \text{ V} \end{cases}$$

The current in the circuit is



- (A) 10 mA (B) 9.3 mA (C) 6.67 mA (D) 6.2 mA

Q19 The output Y of a 2-bit comparator is logic 1 whenever the 2-bit input A is greater than the 2-bit input B . The number of combinations for which the output is logic 1, is

- (A) 4 (B) 6 (C) 8 (D) 10

88.A 620

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