1.1 The Laplace transform of a unit ramp function starting at $t = a$, is

(a) $\dfrac{1}{(s+a)^2}$ (b) $\dfrac{e^{-as}}{(s+a)^2}$

(c) $\dfrac{e^{-as}}{s^2}$ (d) $\dfrac{a}{s^2}$

1.2 The Fourier Series of a odd periodic function, contains only

(a) odd harmonics (b) even harmonics
(c) cosine terms (d) sine terms

1.3 A series LCR circuit consisting of R = 10 Ω, $|X_L| = 20\,Ω$ and $|X_C| = 20\,Ω$, is connected across an a.c. supply of 200 V rms. The rms voltage across the capacitor is

(a) $200\angle -90°$ V (b) $200\angle +90°$ V
(c) $400\angle -90°$ V (d) $400\angle -90°$ V

1.4 A ramp voltage, $v(t) = 100$ volts, is applied to an RC differentiating circuit with R = 5k Ω and C = 4 μF. The maximum output voltage is

(a) 0.2 volts (b) 2.0 volts
(c) 10.0 volts (d) 50.0 volts

1.5 The 3 − dB bandwidth of a typical second-order system with the transfer function

$$\dfrac{C(s)}{R(s)} = \dfrac{\omega_n^2}{s^2 + 2\,\xi\,\omega_n\,s + \omega_n^2} \text{ is given by}$$

(a) $\omega_n = \sqrt{1 - 2\xi^2}$

(b) $\omega_n = \sqrt{(1 - 2\xi^2) + \sqrt{\xi^4 - \xi^2 + 1}}$

(c) $\omega_n = \sqrt{(1 - 2\xi^2) + \sqrt{4\xi^4 - 4\xi^2 + 2}}$

(d) $\omega_n = \sqrt{(1 - 2\xi^2) + \sqrt{4\xi^4 - 4\xi^2 + 2}}$

1.6 If the open-loop transfer function is a ratio of a numerator polynomial of degree 'm' and a denominator polynomial of degree 'n', then the integer (n−m) represents the number of

(a) breakaway points (b) unstable poles
(c) separate root loci (d) asymptotes

1.7 A small concentration of minority carries is injected into a homogeneous semiconductor crystal at one point. An electric field of 10 V.cm is applied across the crystal and this moves the minority carriers a distance of 1 cm is 20 μ sec. The mobility (in cm²/volt. sec) will be

(a) 1,000 (b) 2,000
(c) 5,000 (d) 500,000

1.8 The threshold voltage of an n channel MOSFET can be increased by

(a) increasing the channel dopant concentration
(a) reducing the channel dopant concentration
(c) reducing the gate-oxide thickness
(d) reducing the channel length

1.9 A class - A transformer coupled, transistor power amplifier is required to deliver a power output of 10 watts. The maximum power rating of the transistor should not be less than

(a) 5 W (b) 10 W
(c) 20 W (d) 40 W

1.10 Data can be changed from spatial code to temporal code and vice-versa by using

(a) ADCs and DACs
(b) shift-registers
(c) synchronous counters
(d) timers

1.11 The output of a logic gate is '1' when all its inputs are at logic '0'. Then gate is either

(a) a NAND or an EX-OR gate
(b) a NOR or an EX-NOR gate
(c) an OR or an EX-NOR gate
(d) an AND or an EX-OR gate

1.12 A PLA can be used

(a) as a microprocessor
(b) as a dynamic memory
(c) to realise a sequential logic
(d) to realise a combinational logic

1.13 A dynamic RAM consists of

(a) 6 transistors
(b) 2 transistors and 2 capacitors
(c) 1 transistor and 1 capacitor
(d) 2 capacitors only

1.14 $v(t) = 5\ [\cos(106\ \pi t) - \sin(103\ \pi t) \times \sin(106\ \pi t)]$ represents

(a) DSB suppressed carrier signal
(b) AM signal
(c) SSB upper sideband signal
(d) Narrow band FM signal

1.15 Increased pulse-width in the flat-top sampling, leads to

(a) attenuation of high frequencies in reproduction
(b) attenuation of low frequencies in reproduction
(c) greater aliasing errors in reproduction
(d) no harmful effects in reproduction

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