

# GATE - 1994

## Electronics and Communication Engineering

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

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

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  $R = 10 \Omega$ ,  $|X_L| = 20 \Omega$  and  $|X_C| = 20 \Omega$ , is connected across an a.c. supply of 200 V rms. The rms voltage across the capacitor is

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

1.4 A ramp voltage,  $v(t) = 100$  volts, is applied to an RC differentiating circuit with  $R = 5k \Omega$  and  $C = 4 \mu F$ . 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

$$\frac{C(s)}{R(s)} = \frac{\omega_n^2}{s^2 + 2 \zeta \omega_n s + \omega_n^2}$$
 is given by

- (a)  $\omega_n = \sqrt{1 - 2 \zeta^2}$   
(b)  $\omega_n = \sqrt{1 - 2 \zeta^2} + \sqrt{\zeta^4 - \zeta^2 + 1}$   
(c)  $\omega_n = \sqrt{1 - 2 \zeta^2} + \sqrt{4 \zeta^4 - 4 \zeta^2 + 2}$   
(d)  $\omega_n = \sqrt{1 - 2 \zeta^2} + \sqrt{4 \zeta^4 - 4 \zeta^2 + 2}$

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 carriers 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 in 20  $\mu$  sec. The mobility (in  $\text{cm}^2/\text{volt} \cdot \text{sec}$ ) 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  
(b) 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 realize a sequential logic  
(d) to realize 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  $v(t) = 5 [\cos(100 \pi t) - \sin(100 \pi t)] \times \sin(100 \pi t)$  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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*The Boy's Own Annual* ,1889      **Appendix to the Journals of the House of Representatives of New Zealand** New Zealand. Parliament. House of Representatives,1909      APEC 2002 ,2002      *English Mechanic and Mirror of Science and Art* ,1883      **Scientific American** ,1880 Monthly magazine devoted to topics of general scientific interest      IEICE Transactions on Electronics ,2005      **Proceedings of the ... Annual Conference of the IEEE Industrial Electronics Society** IEEE Industrial Electronics Society. Conference,2004      Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,2003      *Country Gentleman* ,1921      *The Building News and Engineering Journal* ,1886      *International Conference on Computer Design (ICCD '99)* IEEE Computer Society,1999 The proceedings from the October 1999 conference include 107 technical presentations from 14 different countries Not restricted to presented papers this volume includes both the keynote and plenary addresses poster presentations as well as the proceedings of two tutorials one on CAD and one on benchmarking selecting and debugging microcontrollers Topics covered include applied verification techniques computer arithmetic intelligent memory design convergence test generation and delay testing microarchitecture and digital signal processors No subject index Annotation copyrighted by Book News Inc Portland OR      World Trade ,1953 Vols 5 7 9 11 include Official report of the proceedings of the 7th 10th congress of the International chamber of commerce 1933 1937 1939

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