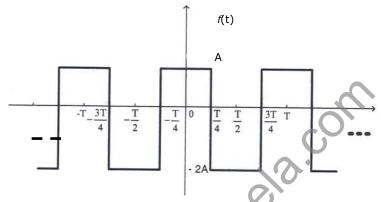
Q. No. 1 - 25 Carry One Mark Each

- 1. The eigen values of a skew-symmetric matrix are
 - (A) always zero

- (B) always pure imaginary
- (C) either zero or pure imaginary
- (D) always real
- 2. The trigonometric Fourier series for the waveform f(t) shown below contains



- (A) only cosine terms and zero value for the dc component
- (B) only cosine terms and a positive value for the dc component
- (C) only cosine terms and a negative value for the dc component
- (D) only sine terms and a negative for the dc component
- A function n(x) satisfied the differential equation $\frac{d^2n(x)}{dx^2} \frac{n(x)}{L^2} = 0$ where L is a 3. constant. The boundary conditions are: n(0)=K and $n(\infty)=0$. The solution to this equation is

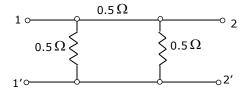
(A)
$$n(x) = K \exp(x/L)$$

(B)
$$n(x) = K \exp(-x/\sqrt{L})$$

(C)
$$n(x) = K^2 \exp(-x/L)$$

(D)
$$n(x) = K \exp(-x/L)$$

For the two-port network shown below, the short-circuit admittance parameter 4. matrix is



(A)
$$\begin{bmatrix} 4 & -2 \\ -2 & 4 \end{bmatrix}$$

(A)
$$\begin{bmatrix} 4 & -2 \\ -2 & 4 \end{bmatrix}$$
S (B) $\begin{bmatrix} 1 & -0.5 \\ -0.5 & 1 \end{bmatrix}$ S (C) $\begin{bmatrix} 1 & 0.5 \\ 0.5 & 1 \end{bmatrix}$ S (D) $\begin{bmatrix} 4 & 2 \\ 2 & 4 \end{bmatrix}$ S

(C)
$$\begin{bmatrix} 1 & 0.5 \\ 0.5 & 1 \end{bmatrix}$$
S

(D)
$$\begin{bmatrix} 4 & 2 \\ 2 & 4 \end{bmatrix}$$
S

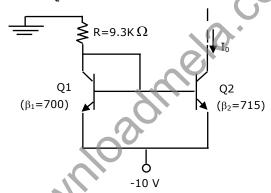
- 5. For parallel RLC circuit, which one of the following statements is NOT correct?
 - (A) The bandwidth of the circuit deceases if R is increased
 - (B) The bandwidth of the circuit remains same if L is increased
 - (C) At resonance, input impedance is a real quantity
 - (D) At resonance, the magnitude of input impedance attains its minimum value.
- At room temperature, a possible value for the mobility of electrons in the inversion 6. layer of a silicon n-channel MOSFET is
 - (A) $450 \text{ cm}^2/V_{-s}$

- (B) $1350 \text{ cm}^2/V_{-s}$ (C) $1800 \text{ cm}^2/V_{-s}$ (D) $3600 \text{ cm}^2/V_{-s}$
- 7. Thin gate oxide in a CMOS process in preferably grown using
 - (A) wet oxidation

(B) dry oxidation

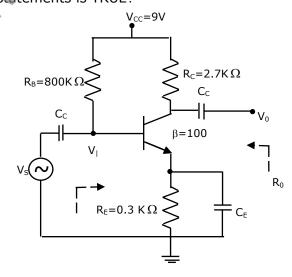
(C) epitaxial deposition

- (D) ion implantation
- In the silicon BJT circuit shown below, assume that the emitter area of transistor 8. Q1 is half that of transistor Q2.

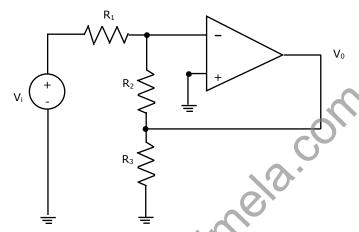


The value of current I_0 is approximately

- (A) 0.5 mA
- (B) 2mA
- (C) 9.3 mA
- (D) 15mA
- 9. The amplifier circuit shown below uses a silicon transistor. The capacitors C_C and C_E can be assumed to be short at signal frequency and the effect of output resistance r_0 can be ignored. If C_E is disconnected from the circuit, which one of the following statements is TRUE?



- (A) The input resistance R_i increases and the magnitude of voltage gain A_V decreases
- (B) The input resistance R_i decreases and the magnitude of voltage gain A_V decreases
- (C) Both input resistance R_{i} and the magnitude of voltage gain A_{V} decrease
- (D) Both input resistance R_i and the magnitude of voltage gain A_V increase
- 10. Assuming the OP-AMP to be ideal, the voltage gain of the amplifier shown below is



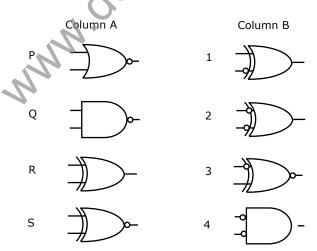
$$(A) - \frac{R_2}{R_1}$$

$$(C) - \frac{R_2 \| R_3}{R_1}$$

(B)
$$-\frac{R_3}{R_1}$$

$$\mathsf{D)} - \left(\frac{\mathsf{R}_2 + \mathsf{R}_3}{\mathsf{R}_1}\right)$$

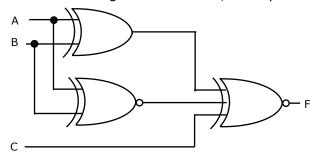
11. Match the logic ga5tes in Column A with their equivalents in Column B.



- (A) P-2, Q-4, R-1, S-3
- (C) P-2, Q-4, R-3, S-1

- (B) P-4, Q-2, R-1, S-3
- (D) P-4, Q-2, R-3, S-1

12. For the output F to be 1 in the logic circuit shown, the input combination should be

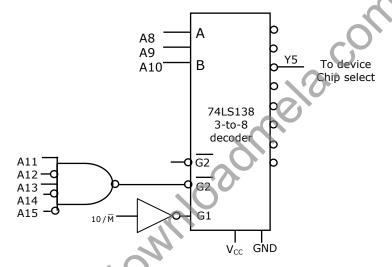


(A) A = 1, B = 1. C = 0

(B) A = 1, B = 0, C = 0

(C) A = 0, B = 1. C = 0

- (D) A = 0, B = 0, C = 1
- 13. In the circuit shown, the device connected to Y5 can have address in the range



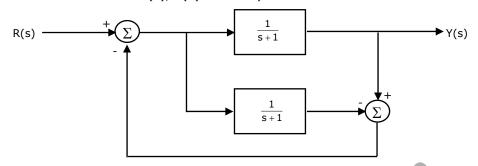
- (A) 2000 20FF
- 2D00 2DFF
- (C) 2E00 2EFF (D) FD00 FDFF
- 14. Consider the z-transform $X(z) = 5z^2 + 4z^{-1} + 3$; $0 < |z| < \infty$. The inverse ztransform x[n]
 - (A) $5\delta[n+2] + 3\delta[n] + 4\delta[n-1]$ (B) $5\delta[n-2] + 3\delta[n] + 4\delta[n+1]$ (C) 5u[n+2] + 3u[n] + 4u[n-1] (D) 5u[n-2] + 3u[n] + 4u[n+1]
- 15. Two discrete time systems with impulse responses $h_1[n] = \delta[n-1]$ and $h_2[n] = \delta[n]$ - 2] are connected in cascade. The overall impulse response of the cascaded system is
 - (A) $\delta[n-1] + \delta[n-2]$

(B) $\delta[n - 4]$

(C) $\delta[n - 3]$

- (D) $\delta[n 1] \delta[n 2]$
- 16. For an N-point FFT algorithm with $N = 2^m$ which one of the following statements is TRUE?
 - (A) It is not possible to construct a signal flow graph with both input and output in normal order
 - (B) The number of butterflies in the mth stage is N/m

- (C) In-place computation requires storage of only 2N node data
- (D) Computation of a butterfly requires only one complex multiplication
- 17. The transfer function Y(s)/R(s) of the system shown is



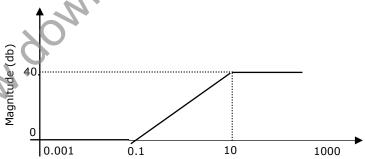
(A) 0

- (B) $\frac{1}{s+1}$
- (C) $\frac{2}{s+1}$
- (D) $\frac{2}{s+3}$
- 18. A system with transfer function $\frac{Y(s)}{X(s)} = \frac{s}{s+p}$ has an output $y(t) = \cos\left(2t \frac{\pi}{3}\right)$ for

the input signal $x(t) = p \cos\left(2t - \frac{\pi}{2}\right)$. Then, the system parameter 'p' is

(A) √3

- (B) $\frac{2}{\sqrt{3}}$
- (C) 1
- (D) $\frac{\sqrt{3}}{2}$
- 19. For the asymptotic Bode magnitude plot shown below, the system transfer function can be



- (A) $\frac{10s+1}{0.1s+1}$
- (B) $\frac{100s+1}{0.1s+1}$
- (C) $\frac{100s}{10s+1}$
- (D) $\frac{0.1s+1}{10s+1}$
- 20. Suppose that the modulating signal is $m(t) = 2\cos{(2\pi f_m t)}$ and the carrier signal is $x_C(t) = A_C \cos(2\pi f_c t)$, which one of the following is a conventional AM signal **without** over-modulation?
 - (A) $x(t) = A_c m(t) \cos(2\pi f_c t)$
 - (B) $x(t) = A_c[1 + m(t)]\cos(2\pi f_c t)$
 - (C) $x(t) = A_c \cos(2\pi f_c t) + \frac{A_c}{4} m(t) \cos(2\pi f_c t)$
 - (D) $x(t) = A_c \cos(2\pi f_m t) \cos(2\pi f_c t) + A_c \sin(2\pi f_m t) \sin(2\pi f_c t)$

- 21. Consider an angle modulated signal $x(t) = 6\cos[2\pi x 10^6 t + 2\sin(8000\pi t) + 4\cos(8000pt)]$ V. The average power of x(t) is.
 - (A) 10W
- (B) 18W
- (C) 20W
- (D) 28W
- 22. If the scattering matrix [S] of a two port network is $[S] = \begin{bmatrix} 0.2 \angle 0^0 & 0.9 \angle 90^0 \\ 0.9 \angle 90^0 & 0.1 \angle 90^0 \end{bmatrix}$ then

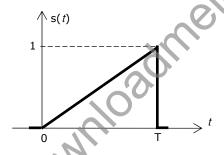
the network is

(A) lossless and reciprocal

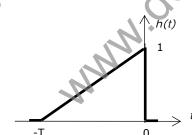
(B) lossless but not reciprocal

- (C) not lossless but reciprocal
- (D) neither lossless nor reciprocal
- 23. A transmission line has a characteristic impedance of 50Ω and a resistance of 0.1Ω /m. if the line is distortion less, the attenuation constant (in Np/m) is
 - (A) 500
- (B) 5

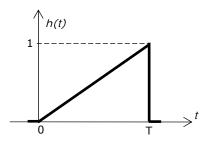
- (C) 0.014
- (D) 0.002
- 24. Consider the pulse shape s(t) as shown. The impulse response h(t) of the filter matched to this pulse is



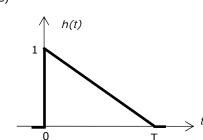
(A)



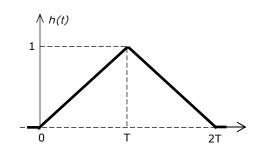
(B)



(C)



(D)



- The electric field component of a time harmonic plane EM wave traveling in a nonmagnetic lossless dielectric medium has an amplitude of 1 V/m. If the relative permittivity of the medium is 4, the magnitude of the time-average power density vector (in W/m²) is
 - (A) $\frac{1}{30\pi}$

- (B) $\frac{1}{60\pi}$ (C) $\frac{1}{120\pi}$ (D) $\frac{1}{240\pi}$

Q. No. 26 - 51 Carry Two Marks Each

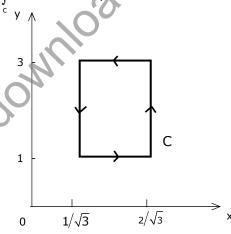
- 26. If $e^y = X^{\frac{1}{x}}$, then y has a
 - (A) maximum at x = e

(B) minimum at x = e

(C) maximum at $x = e^{-1}$

- (D) minimum at $x = e^{-1}$
- A fair coin is tossed independently four times. The probability of the event "the number of time heads shown up is more than the number of times tails shown up"
 - (A) $\frac{1}{16}$

- (D) $\frac{5}{16}$
- 28. If $\vec{A}=xy\,\hat{a}_x+x^2\hat{a}_y$ then $\oint \vec{A}.d\vec{l}$ over the path shown in the figure is



(A) 0

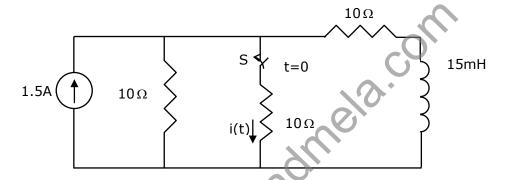
- (B) $\frac{2}{\sqrt{3}}$
- (C) 1
- (D) $2\sqrt{3}$
- The residues of a complex function $X(z) = \frac{1-12z}{z(z-1)(z-2)}$ at its poles are
 - (A) $\frac{1}{2}$, $-\frac{1}{2}$ and 1

(B) $\frac{1}{2}$, $-\frac{1}{2}$ and -1

(C) $\frac{1}{2}$, -1 and $-\frac{3}{2}$

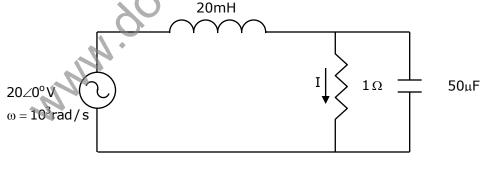
(D) $\frac{1}{2}$, -1 and $\frac{3}{2}$

- Consider differential equation $\frac{dy(x)}{dx}$ -y (x) = x with the initial condition y(0) = 0. Using Euler's first order method with a step size of 0.1, the value of y (0.3) is (A) 0.01 (B) 0.031 (C) 0.0631 (D) 0.1
- Given $f(t) = L^{-1} \left[\frac{3s+1}{s3+4s2+(K-3)s} \right]$. If $\lim_{K \to \infty} f(t) = 1$, then the value of K is (A) 1(C) 3 (D) 4
- In the circuit shown, the switch S is open for a long time and is closed at t=0. The current i(t) for t≥0+ is



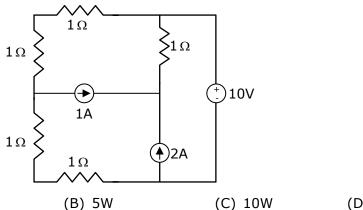
- (A) $i(t)=0.5-0.125e^{-1000t}A$
- (C) $i(t)=0.5-0.5e^{-1000t}A$

- (B) $i(t)=1.5-0.125e^{-1000t}A$
- (D) $i(t)=0.375e^{-1000t}A$
- The current I in the circuit shown is



- (A) -j1A
- (B) J1A
- (C) 0A
- (D) 20A

34. In the circuit shown, the power supplied by the voltage source is



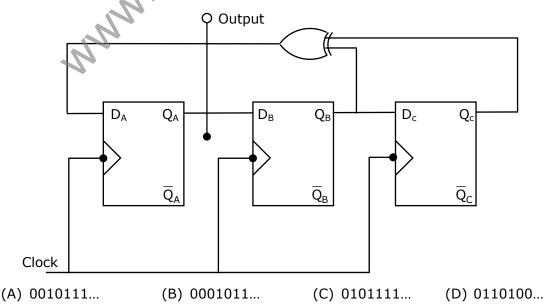
(A) 0W

- (B) 5W
- (D) 100W
- In a uniformly doped BJT, assume that N_{E} , N_{B} and N_{C} are the emitter, base and collector dopings in atoms/cm³, respectively. If the emitter injection efficiency of the BJT is close unity, which one of the following conditions is TRUE?
 - (A) $N_E = N_B = N_C$

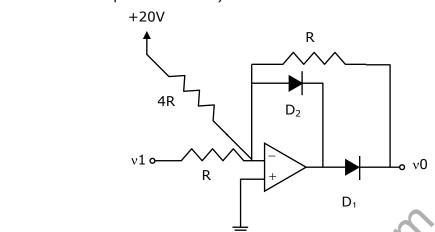
(B) $N_E \gg N_B$ and $N_B > N_C$

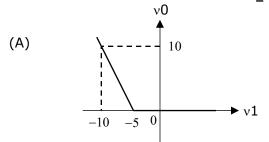
(C) $N_E = N_B$ and $N_B < N_C$

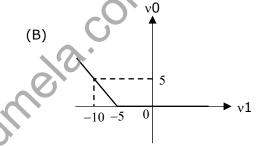
- $N_E < N_B < N_C$
- Compared to a p-n junction with NA=ND=10¹⁴/cm³, which one of the following 36. statements is TRUE for a p-n junction with $N_A = N_D = 10^{20} / \text{cm}^3$?
 - (A) Reverse breakdown voltage is lower and depletion capacitance is lower
 - (B) Reverse breakdown voltage is higher and depletion capacitance is lower
 - (C) Reverse breakdown voltage is lower and depletion capacitance is higher
 - (D) Reverse breakdown voltage is higher and depletion capacitance is higher
- Assuming that flip-flops are in reset condition initially, the count sequence observed at Q_A in the circuit shown is

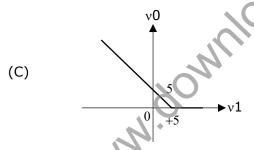


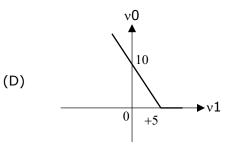
38. The transfer characteristic for the precision rectifier circuit shown below is (assume ideal OP-AMP and practical diodes)



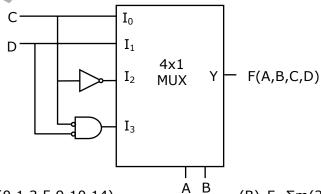








39. The Boolean function realized by the logic circuit shown is



(A) $F=\Sigma m(0,1,3,5,9,10,14)$

(B) $F=\Sigma m(2,3,5,7,8,12,13)$

(C) $F=\Sigma m(1,2,4,5,11,14,15)$

(D) $F=\Sigma m(2,3,5,7,8,9,12)$

40. For the 8085 assembly language program given below, the content of the accumulator after the execution of the program is

3000	MVI	Α,	45H
3002	MOV	В,	Α
3003	STC		
3004	CMC		
3005	RAR		
3006	XRA	В	

- (A) 00H
- (B) 45H
- (C) 67H
- (D) E7H

41. A continuous time LTI system is described by

$$\frac{d^2y(t)}{dt^2} + 4\frac{dy(t)}{dt}3y(t) = 2\frac{dx(t)}{dt} + 4x(t)$$

Assuming zero initial conditions, the response y(t) of the above system for the input $x(t)=e^{-2t}u(t)$ is given by

(A) $(e^{t}-e^{3t})u(t)$

(B) $(e^{-t}-3^{-3t})u(t)$

(C) $(e^{-t}+e^{-3t})u(t)$

(D) $(e^t + e^{3t})u(t)$

42. The transfer function of a discrete time LTI system is given by

$$H(z) = \frac{2 - \frac{3}{4}z^{-1}}{1 - \frac{3}{4}z^{-1} + \frac{1}{8}z^{-2}}$$

Consider the following statements:

- S1: The system is stable and causal for ROC: $|z|>\frac{1}{2}$
- S2: The system is stable but not causal for ROC: $|z| < \frac{1}{4}$
- S3: The system is neither stable nor causal for ROC: $\frac{1}{4} < |z| < \frac{1}{2}$

Which one of the following statements is valid?

(A) Both S1 and S2 are true

(B) Both S2 and S3 are true

(C) Both S1 and S3 are true

(D) S1, S2 and S3 are all true

43. The Nyquist sampling rate for the signal $s(t) = \frac{\sin(500\pi t)}{\pi t} \times \frac{\sin(700)\pi t}{\pi t}$ is given by

- (A) 400 Hz
- (B) 600 Hz
- (C) 1200Hz
- (D) 1400 Hz

44. A unity negative feedback closed loop system has a plant with the transfer function $G(s) = \frac{1}{s^2 + 2s + 2} \quad \text{and a controller } G_c(S) \text{ in the feed forward path. For a unit set input, the transfer function of the controller that gives minimum steady state error is$

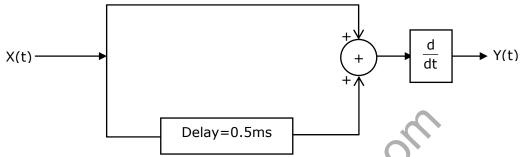
(A) $G_c(s) = \frac{s+1}{s+2}$

(B) $G_c(s) = \frac{s+2}{s+1}$

(C) $G_c(s) = \frac{(s+1)(s+4)}{(s+2)(s+3)}$

(D) $G_c(s) = 1 + \frac{2}{s} + 3s$

45. X(t) is a stationary process with the power spectral density $S_x(f)>0$ for all f. The process is passed through a system shown below.



Let $S_y(f)$ be the power spectral density of Y(t). Which one of the following statements is correct?

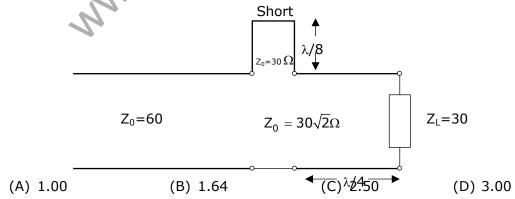
- (A) $S_y(f)>0$ for all f
- (B) $S_v(f)=0$ for |f|>1kHz
- (C) $S_v(f)=0$ for $f=nf_0$, $f_0=2kHz$, n any integer
- (D) $S_v(f)=0$ for $f=(2n+1)f_0=1$ kHz, n any integer
- 46. A plane wave having the electric field component $\vec{E_i} = 24\cos(3x10^8t \beta y)\hat{a}_z$ V/m and traveling in free space is incident normally on a lossless medium with m= m₀ and e=9e0 which occupies the region y≥0. The reflected magnetic field component is given by

(A)
$$\frac{1}{10\pi}\cos(3x10^8t + y)\hat{a}_x$$
 A/m

(B) $\frac{1}{20\pi}\cos(3x10^8t + y)\hat{a}_x A/m$

(C)
$$-\frac{1}{20\pi}\cos(3x10^8t + y)\hat{a}_x A/m$$

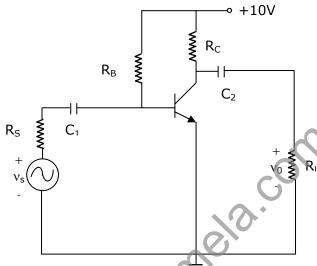
- (D) $-\frac{1}{10\pi}\cos(3x10^8t + y)\hat{a}_x A/m$
- 47. In the circuit shown, all the transmission line sections are lossless. The Voltage Standing Wave Ration (VSWR) on the 60W line is



Common Data Questions: 48 & 49

Consider the common emitter amplifier shown below with the following circuit parameters:

b=100, g_m =0.3861 A/V, r_0 = ∞ , r_p =259 W, R_S =1k W, R_B =93K W, R_C =250 W, R_L =1k W, C_1 = ∞ and C_2 =4.7mF.

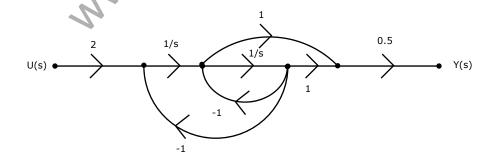


- 48. The resistance seen by the source Vs is
 - (A) 258 Ω
- (B) 1258 Ω
- (C) 93 KΩ
- (D) ∞

- 49. The lower cut-off frequency due to C₂ is
 - (A) 33.9 Hz
- (B) 27.1 Hz
- (C) 13.6 Hz
- (D) 16.9 Hz

Common Data Questions: 50 & 51

The signal flow graph of a system is shown below.



The state variable representation of the system can be

(A)
$$X = \begin{bmatrix} 1 & 1 \\ -1 & 0 \end{bmatrix} X + \begin{bmatrix} 0 \\ 2 \end{bmatrix} U$$

$$Y = \begin{bmatrix} 0 & 0.5 \end{bmatrix} X$$

(B)
$$X = \begin{bmatrix} -1 & 1 \\ -1 & 0 \end{bmatrix} X + \begin{bmatrix} 0 \\ 2 \end{bmatrix} U$$

$$y = \begin{bmatrix} 0 & 0.5 \end{bmatrix} X$$

(C)
$$x = \begin{bmatrix} 1 & 1 \\ -1 & 0 \end{bmatrix} x + \begin{bmatrix} 0 \\ 2 \end{bmatrix} u$$

$$y = \begin{bmatrix} 0.5 & 0.5 \end{bmatrix} x$$

(D)
$$x = \begin{bmatrix} -1 & 1 \\ -1 & 0 \end{bmatrix} x + \begin{bmatrix} 0 \\ 2 \end{bmatrix} u$$

$$y = \begin{bmatrix} 0.5 & 0.5 \end{bmatrix} x$$

51. The transfer function of the system is

(A)
$$\frac{s+1}{s^2+1}$$

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

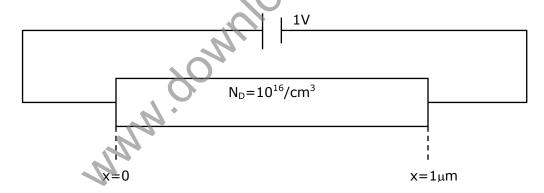
(C)
$$\frac{s+1}{s^2+s+1}$$

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

Linked Answer Questions: Q.52 to Q.55 Carry Two Marks Each

Statement for Linked Answer Questions: 52 & 53

The silicon sample with unit cross-sectional area shown below is in thermal equilibrium. The following information is given: T=300K, electronic charge=1.6x10 ¹⁹C, thermal voltage=26mV and electron mobility = 1350cm²/V-s



- 52. The magnitude of the electric field at $x=0.5 \mu m$ is
 - (A) 1kV/cm
- (B) 5kV/cm
- (C) 10 kV/cm
- (D) 26kV/cm
- 53. The magnitude of the electron drift current density at $x=0.5 \mu m$ is
 - (A) $2.16x10^4$ A/cm²

(B) 1.08x10⁴ A/cm²

(C) 4.32x10³ A/cm²

(D) $6.48 \times 10^2 \text{ A/cm}^2$

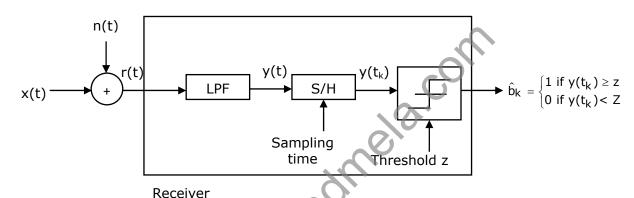
Statement for Linked Answer Questions: 54 & 55

Consider a baseband binary PAM receiver shown below. The additive channel noise n(t) is whit with power spectral density $S_N(f) = N_0/2 = 10^{-20}$ W/Hz. The low-pass filter is ideal with unity gain and cutoff frequency 1MHz. Let Y_k represent the random variable $y(t_k)$.

 $Y_k = N_k$ if transmitted bit $b_k = 0$

 $Y_k=a+N_k$ if transmitted bit $b_k=1$

Where N_k represents the noise sample value. The noise sample has a probability density function, $P_{Nk}(n)=0.5\alpha e^{-\alpha|n|}$ (This has mean zero and variance $2/\alpha^2$). Assume transmitted bits to be equiprobable and threshold z is set to $a/2=10^{-6}V$.



- 54. The value of the parameter α (in V⁻¹) is
 - (A) 10¹⁰
- (B) 10⁷
- (C) 1.414x10⁻¹⁰
- (D) $2x10^{-20}$

- 55. The probability of bit error is
 - (A) $0.5xe^{-3.5}$
- (B) 0 5xe⁻⁵
- (C) $0.5xe^{-7}$
- (D) 0.5xe⁻¹⁰

Q. No. 56 - 60 Carry One Mark Each

- 56. Which of the following options is the closest in meaning to the world below: Circuitous
 - (A) Cyclic
- (B) indirect
- (C) confusing
- (D) crooked
- 57. The question below consists of a pair of related of related words followed by four pairs of words. Select the pair that best expresses the relation in the original pair.

Unemployed: Worker

(A) fallow: land(C) wit: jester

(B) unaware : sleeper

(D) renovated : house

58. Choose the most appropriate word from the options given below to complete the following sentence:

If we manage to _____ our natural resources, we would leave a better planet for our children.

- (A) uphold
- (B) restrain
- (C) Cherish
- (D) conserve

Choose the most approfollowing sentence:	opriate word from the	e options given belo	w to complete the
His rather casual remasubject.	arks on politics	his lack of seri	ousness about the
(A) masked	(B) belied	(C) cherish	(D) conserve
of them play both hock			
(A) 2	(B) 17	(C) 13	(D) 3
Q. N	o. 61 – 65 Carry Tw	o Marks Each	
civilian populations. Ch to such warfare; and re think that chemical age which of the following passage: (A) Modern warfare ha (B) Chemical agents ar (C) Use of chemical ag	emical agents that do egretfully, there exist ents are useful tools for g statements best so resulted in civil striftere useful in modern waters in warfare would	their work silently a people in military entry their cause. ums up the mean e. e. priare. be undesirable.	appear to be suited establishments who ning of the above
If 137+276=435 how r (A) 534	much is 731+672? (B) 1403	(C) 1623	(D) 1513
in 25days; 10 unskilled 6 semi-skilled and 5 un	l workers can build a siskilled workers, how l	wall in 30 days. If a ong will it take to bu	team has 2 killed,
3000 can be formed?			bers greater than (D) 54
Hari (H), Gita (G), Irfal were born on 1 st Janua (that is born one after a i. Hair's age + Gita's ii. The age difference oldest and Saira is iii. There are not twins	n (I) and Saira (S) are ary. The age difference another) is less than3 age > Irfan's age + S between Gita and Sa not the youngest.	e sibiligs (i.e. brothe e between any two years. Given the fol aira's age. ira is 1 year. Howe	ers and sisters). All successive siblings llowing facts:
	following sentence: His rather casual remasubject. (A) masked 25 persons are in a rocof them play both hock hockey nor football is: (A) 2 Q. N Modern warfare has checivilian populations. Chec	following sentence: His rather casual remarks on politics subject. (A) masked (B) belied 25 persons are in a room. 15 of them play he of them play both hockey and football. Then hockey nor football is: (A) 2 (B) 17 C. No. 61 – 65 Carry Tw Modern warfare has changed from large scacivilian populations. Chemical agents that do to such warfare; and regretfully, there exist think that chemical agents are useful tools for which of the following statements best spassage: (A) Modern warfare has resulted in civil strife (B) Chemical agents are useful in modern warfare) warfare would (D) People in military establishments like to be semi-skilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; in 25days; 10 unskilled workers can build a wall in 20 days; in 25days; in	His rather casual remarks on politics his lack of seri subject. (A) masked (B) belied (C) cherish 25 persons are in a room. 15 of them play hockey, 17 of them pof them play both hockey and football. Then the number of pershockey nor football is: (A) 2 (B) 17 (C) 13 Q. No. 61 – 65 Carry Two Marks Each Modern warfare has changed from large scale clashes of armedivilian populations. Chemical agents that do their work silently to such warfare; and regretfully, there exist people in military ethink that chemical agents are useful tools for their cause. Which of the following statements best sums up the mean passage: (A) Modern warfare has resulted in civil strife. (B) Chemical agents are useful in modern warfare. (C) Use of chemical agents in warfare would be undesirable. (D) People in military establishments like to use chemical agents. If 137+276=435 how much is 731+672? (A) 534 (B) 1403 (C) 1623 5 skilled workers can build a wall in 20 days; 8 semi-skilled work in 25days; 10 unskilled workers can build a wall in 30 days. If a 6 semi-skilled and 5 unskilled workers, how long will it take to be cased as the semi-skilled and 5 unskilled workers, how long will it take to be cased and 5 unskilled workers, how long will it take to be cased as the semi-skilled and 5 unskilled workers, how long will it take to be cased as the semi-skilled and 5 unskilled workers, how long will it take to be cased as the semi-skilled and 5 unskilled workers, how long will it take to be cased as the semi-skilled and 5 unskilled workers, how long will it take to be cased as the semi-skilled and 5 unskilled workers, how long will it take to be cased as the semi-skilled workers, how long will it take to be cased as the semi-skilled workers, how long will it take to be cased as the semi-skilled workers, how long will it take to be cased as the semi-skilled workers, how long will it take to be cased as the semi-skilled workers, how long will it take to be cased as the semi-skilled workers, how long will it take to be cased a



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