Q. 1 – Q. 5 carry one mark each.

Q.1 The fishermen, _____ the flood victims owed their lives, were rewarded by the government.

(A) whom (B) to which (C) to whom (D) that

Q.2 Some students were not involved in the strike.

If the above statement is true, which of the following conclusions is/are logically necessary?

- 1. Some who were involved in the strike were students.
- 2. No student was involved in the strike.
- 3. At least one student was involved in the strike.
- 4. Some who were not involved in the strike were students.

(A) 1 and 2 (B) 3 (C) 4 (D) 2 and 3

- Q.3 The radius as well as the height of a circular cone increases by 10%. The percentage increase in its volume is _____.
 - (A) 17.1 (B) 21.0 (C) 33.1 (D) 72.8
- Q.4 Five numbers 10, 7, 5, 4 and 2 are to be arranged in a sequence from left to right following the directions given below:
 - 1. No two odd or even numbers are next to each other.
 - 2. The second number from the left is exactly half of the left-most number.
 - 3. The middle number is exactly twice the right-most number.

Which is the second number from the right?

(A) 2 (B) 4 (C) 7 (D) 10

Q.5 Until Iran came along, India had never been ______ in kabaddi.

(A) defeated (B) defeating (C) defeat (D) defeatist

Q. 6 – Q. 10 carry two marks each.

Q.6 Since the last one year, after a 125 basis point reduction in repo rate by the Reserve Bank of India, banking institutions have been making a demand to reduce interest rates on small saving schemes. Finally, the government announced yesterday a reduction in interest rates on small saving schemes to bring them on par with fixed deposit interest rates.

Which one of the following statements can be inferred from the given passage?

- (A) Whenever the Reserve Bank of India reduces the repo rate, the interest rates on small saving schemes are also reduced
- (B) Interest rates on small saving schemes are always maintained on par with fixed deposit interest rates
- (C) The government sometimes takes into consideration the demands of banking institutions before reducing the interest rates on small saving schemes
- (D) A reduction in interest rates on small saving schemes follow only after a reduction in reportate by the Reserve Bank of India
- Q.7 In a country of 1400 million population, 70% own mobile phones. Among the mobile phone owners, only 294 million access the Internet. Among these Internet users, only half buy goods from e-commerce portals. What is the percentage of these buyers in the country?
 - (A) 10.50 (B) 14.70 (C) 15.00 (D) 50.00
- Q.8 The nomenclature of Hindustani music has changed over the centuries. Since the medieval period *dhrupad* styles were identified as *baanis*. Terms like *gayaki* and *baaj* were used to refer to vocal and instrumental styles, respectively. With the institutionalization of music education the term *gharana* became acceptable. *Gharana* originally referred to hereditary musicians from a particular lineage, including disciples and grand disciples.

Which one of the following pairings is NOT correct?

- (A) *dhrupad*, *baani*(B) *gayaki*, vocal
 (C) *baaj*, institution
 (D) *gharana*, lineage
- Q.9 Two trains started at 7AM from the same point. The first train travelled north at a speed of 80km/h and the second train travelled south at a speed of 100 km/h. The time at which they were 540 km apart is _____ AM.
 - (A) 9 (B) 10 (C) 11 (D) 11.30

Q.10 "I read somewhere that in ancient times the prestige of a kingdom depended upon the number of taxes that it was able to levy on its people. It was very much like the prestige of a head-hunter in his own community."

Based on the paragraph above, the prestige of a head-hunter depended upon _____

- (A) the prestige of the kingdom
- (B) the prestige of the heads
- (C) the number of taxes he could levy
- (D) the number of heads he could gather

END OF THE QUESTION PAPER

Q. 1 – Q. 25 carry one mark each.

Q.1 $\vec{a}, \vec{b}, \vec{c}$ are three orthogonal vectors. Given that $\vec{a} = \hat{i} + 2\hat{j} + 5\hat{k}$ and $\vec{b} = \hat{i} + 2\hat{j} - \hat{k}$, the vector \vec{c} is parallel to

(A)
$$\hat{\imath} + 2\hat{\jmath} + 3\hat{k}$$
 (B) $2\hat{\imath} + \hat{\jmath}$ (C) $2\hat{\imath} - \hat{\jmath}$ (D) $4\hat{k}$

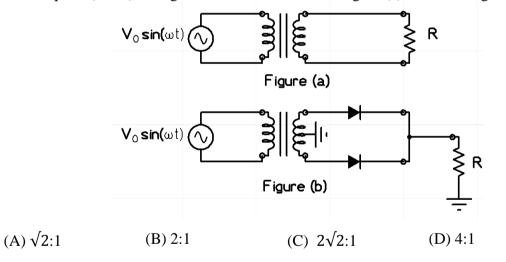
Q.2 The vector function \vec{A} is given by $\vec{A} = \vec{\nabla}u$, where u(x, y) is a scalar function. Then $|\vec{\nabla} \times \vec{A}|$ is

(A) -1 (B) 0 (C) 1 (D) ∞

Q.3 A box has 8 red balls and 8 green balls. Two balls are drawn randomly in succession from the box *without replacement*. The probability that the first ball drawn is red *and* the second ball drawn is green is

(A) 4/15 (B) 7/16 (C) 1/2 (D) 8/15

Q.4 In the Figures (a) and (b) shown below, the transformers are identical and ideal, except that the transformer in Figure (b) is centre-tapped. Assuming ideal diodes, the ratio of the root-mean-square (RMS) voltage across the resistor *R* in Figure (a) to that in Figure (b) is



Q.5 The output y(t) of a system is related to its input x(t) as

$$y(t) = \int_{0}^{t} x(\tau - 2)d\tau,$$

where, x(t) = 0 and y(t) = 0 for $t \le 0$. The transfer function of the system is

(A)
$$\frac{1}{s}$$

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

Q.6 The input x[n] and output y[n] of a discrete-time system are related as $y[n] = \alpha y[n-1] + x[n]$. The condition on α for which the system is Bounded-Input Bounded-Output (BIBO) stable is

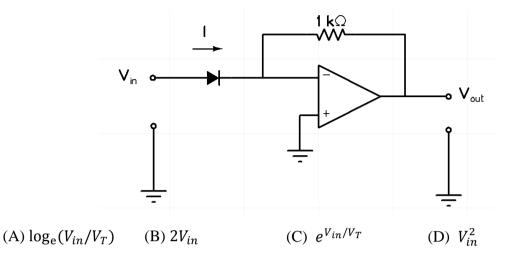
(A) $|\alpha| < 1$ (B) $|\alpha| = 1$ (C) $|\alpha| > 1$ (D) $|\alpha| < 3/2$

- Q.7 In a cascade control system, the closed loop transfer function of the inner loop may be assumed to have a single time-constant τ_1 . Similarly, the closed loop transfer function of the outer loop may be assumed to have a single time-constant τ_2 . The desired relationship between τ_1 and τ_2 in a well-designed control system is
 - (A) τ_1 is much less than τ_2 (B) τ_1 is equal to τ_2 (C) τ_1 is much greater than τ_2
 - (D) τ_1 is independent of τ_2
- Q.8 The loop-gain function L(s) of a control system with unity feedback is given to be $L(s) = \frac{k}{(s+1)(s+2)(s+3)}$, where k > 0. If the gain cross-over frequency of the loop-gain

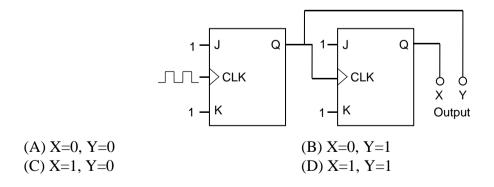
function is less than its phase cross-over frequency, the closed-loop system is

- (A) unstable(B) marginally stable(C) conditionally stable(D) stable
- Q.9 If each of the values of inductance, capacitance and resistance of a series LCR circuit are doubled, the Q-factor of the circuit would
 - (A) reduce by a factor $\sqrt{2}$
 - (B) reduce by a factor 2
 - (C) increase by a factor $\sqrt{2}$
 - (D) increase by a factor 2

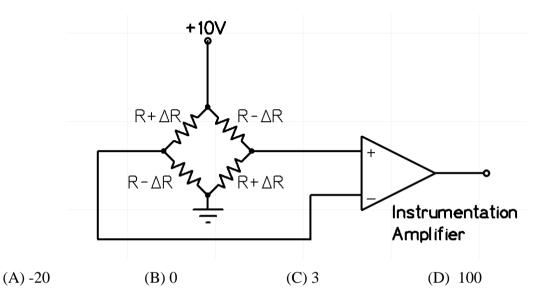
Q.10 In the circuit shown below, the input voltage V_{in} is positive. The current (I) - voltage (V) characteristics of the diode can be assumed to be $I = I_0 e^{V/V_T}$ under the forward bias condition, where V_T is the thermal voltage and I_0 is the reverse saturation current. Assuming an ideal op-amp, the output voltage V_{out} of the circuit is proportional to



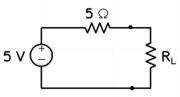
- Q.11 The correct biasing conditions for typical operation of light emitting diodes, photodiodes, Zener diodes are, respectively
 - (A) forward bias, reverse bias, reverse bias
 - (B) reverse bias, reverse bias, forward bias
 - (C) forward bias, forward bias, reverse bias
 - (D) reverse bias, forward bias, reverse bias
- Q.12 The circuit shown in the figure below uses ideal positive edge-triggered synchronous J-K flip flops with outputs X and Y. If the initial state of the output is X=0 and Y=0 just before the arrival of the first clock pulse, the state of the output just before the arrival of the second clock pulse is



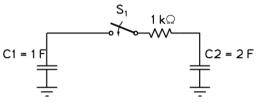
- Q.13 Thermocouples measure temperature based on
 - (A) Photoelectric effect
 - (B) Seebeck effect
 - (C) Hall effect
 - (D) Thermal expansion
- Q.14 Four strain gauges in a Wheatstone bridge configuration are connected to an instrumentation amplifier as shown in the figure. From the choices given below, the preferred value for the common mode rejection ratio (CMRR) of the amplifier, in dB, would be



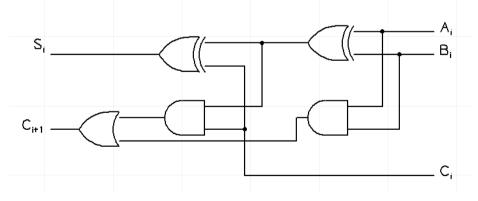
- Q.15 In a single-mode optical fiber, the zero-dispersion wavelength refers to the wavelength at which the
 - (A) material dispersion is zero.
 - (B) waveguide dispersion is zero.
 - (C) sum of material dispersion and waveguide dispersion is zero.
 - (D) material dispersion and waveguide dispersion are simultaneously zero.
- Q.16 A 3×3 matrix has eigenvalues 1, 2 and 5. The determinant of the matrix is _____.
- Q.17 In the circuit shown below, maximum power is transferred to the load resistance R_L , when $R_L = ___ \Omega$.



- Q.18 Consider a circuit comprising only resistors with constant resistance and ideal independent DC voltage sources. If all the resistances are scaled *down* by a factor 10, and all source voltages are scaled *up* by a factor 10, the power dissipated in the circuit scales *up* by a factor of ______.
- Q.19 In the circuit shown below, initially the switch S_1 is open, the capacitor C1 has a charge of 6 coulomb, and the capacitor C2 has 0 coulomb. After S_1 is closed, the charge on C2 in steady state is _____ coulomb.



- Q.20 An 8-bit weighted resistor digital-to-analog converter (DAC) has the smallest resistance of 500 Ω . The largest resistance has a value ______ k Ω .
- Q.21 The total number of Boolean functions with distinct truth-tables that can be defined over 3 Boolean variables is _____.
- Q.22 The figure below shows the i^{th} full-adder block of a binary adder circuit. C_i is the input carry and C_{i+1} is the output carry of the circuit. Assume that each logic gate has a delay of 2 nanosecond, with no additional time delay due to the interconnecting wires. If the inputs A_i, B_i are available and stable throughout the carry propagation, the maximum time taken for an input C_i to produce a steady-state output C_{i+1} is ______ nanosecond.



- Q.23 The resistance of a resistor is measured using a voltmeter and an ammeter. The voltage measurements have a mean value of 1V and standard deviation of 0.12 V while current measurements have a mean value of 1 mA with standard deviation of 0.05 mA. Assuming that the errors in voltage and current measurements are independent, the standard deviation of the calculated resistance value is _____ Ω .
- Q.24 A pitot-static tube is used to estimate the velocity of an incompressible fluid of density 1 kg/m³. If the pressure difference measured by the tube is 200 N/m^2 , the velocity of the fluid, assuming the pitot-tube coefficient to be 1.0, is _____m/s.
- Q.25 A signal $\cos(2\pi f_m t)$ modulates a carrier $\cos(2\pi f_c t)$ using the double-sideband-with-carrier (DSBWC) scheme to yield a modulated signal $\cos(2\pi f_c t) + 0.3\cos(2\pi f_m t)\cos(2\pi f_c t)$. The modulation index is _____. (Answer should be rounded off to one decimal place)

Q. 26 – Q. 55 carry two marks each.

- Q.26 The curve y = f(x) is such that the tangent to the curve at every point (x, y) has a Y-axis intercept c, given by c = -y. Then, f(x) is proportional to
 - (A) x^{-1} (B) x^2 (C) x^3 (D) x^4
- Q.27 The function p(x) is given by $p(x) = A/x^{\mu}$ where A and μ are constants with $\mu > 1$ and $1 \le x < \infty$ and p(x) = 0 for $-\infty < x < 1$. For p(x) to be a probability density function, the value of A should be equal to
 - (A) $\mu 1$ (C) $1/(\mu - 1)$ (B) $\mu + 1$ (D) $1/(\mu + 1)$

Q.28 The dynamics of the state $\begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$ of a system is governed by the differential equation $\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ -3 & -4 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \begin{bmatrix} 20 \\ 10 \end{bmatrix}$. Given that the initial state is $\begin{bmatrix} 0 \\ 0 \end{bmatrix}$, the steady state value of $\begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$ is (A) $\begin{bmatrix} -30 \\ -40 \end{bmatrix}$ (B) $\begin{bmatrix} -20 \\ -10 \end{bmatrix}$ (C) $\begin{bmatrix} 5 \\ -15 \end{bmatrix}$ (D) $\begin{bmatrix} 50 \\ -35 \end{bmatrix}$

Q.29 A complex function f(z) = u(x, y) + i v(x, y) and its complex conjugate $f^*(z) = u(x, y) - i v(x, y)$ are *both* analytic in the entire complex plane, where z = x + i y and $i = \sqrt{-1}$. The function f is then given by

(A)
$$f(z) = x + i y$$

(B) $f(z) = x^2 - y^2 + i 2xy$
(C) $f(z) = \text{constant}$
(D) $f(z) = x^2 + y^2$

- Q.30 In a control system with unity gain feedback, the plant has the transfer function P(s) = 3/s. Assuming that a controller of the form C(s) = K/(s+p) is used, where K is a positive constant, the value of p for which the root-locus of the closed-loop system passes through the points $-3 \pm j3\sqrt{3}$ where $j = \sqrt{-1}$, is
 - (A) 3
 - (B) $3\sqrt{3}$
 - (C) 6
 - (D) 9

Q.31 The forward path transfer function L(s) of the control system shown in Figure (a) has the asymptotic Bode plot shown in Figure (b). If the disturbance d(t) is given by $d(t) = 0.1\sin(\omega t)$ where $\omega = 5 rad/s$, the steady-state amplitude of the output y(t) is

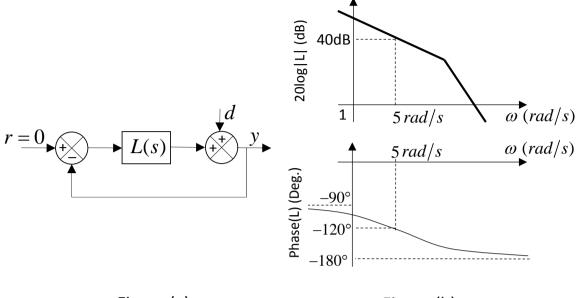
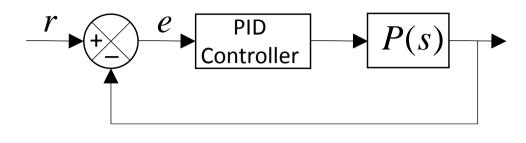


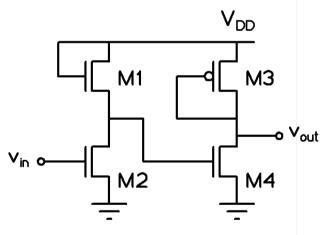
Figure (a)

Figure (b)

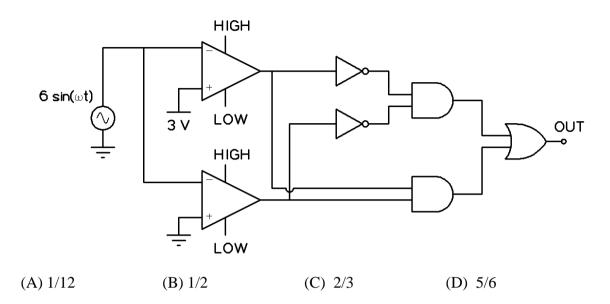
(A) 1.00×10^{-3} (B) 2.50×10^{-3} (C) 5.00×10^{-3} (D) 10.00×10^{-3} Q.32 In the control system shown in the figure below, a reference signal $r(t) = t^2$ is applied at time t = 0. The control system employs a PID controller $C(s) = K_P + K_I/s + K_D s$ and the plant has a transfer function P(s) = 3/s. If $K_P = 10$, $K_I = 1$ and $K_D = 2$, the steady state value of *e* is



- (A) 0
- (B) 2/3 (C) 1
- (C) 1 (D) ∞
- Q.33 A voltage amplifier is constructed using enhancement mode MOSFETs labeled M1, M2, M3 and M4 in the figure below. M1, M2 and M4 are n-channel MOSFETs and M3 is a p-channel MOSFET. All MOSFETs operate in saturation mode and channel length modulation can be ignored. The low frequency, small signal input and output voltages are v_{in} and v_{out} respectively and the dc power supply voltage is V_{DD} . All n-channel MOSFETs have identical transconductance g_{mn} while the p-channel MOSFET has transconductance g_{mp} . The expressions for the low frequency small signal voltage gain v_{out}/v_{in} is

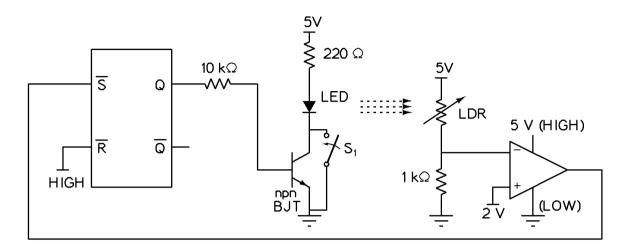


(A) $-g_{mn}/g_{mp}$ (B) $-g_{mn}(g_{mn} + g_{mp})^{-1}$ (C) $+g_{mn}/g_{mp}$ (D) $g_{mn}(g_{mn} + g_{mp})^{-1}$ Q.34 In the circuit shown below, assume that the comparators are ideal and all components have zero propagation delay. In one period of the input signal $V_{in} = 6 \sin(\omega t)$, the fraction of the time for which the output OUT is in logic state HIGH is



- Q.35 $X = X_1 X_0$ and $Y = Y_1 Y_0$ are 2-bit binary numbers. The Boolean function *S* that satisfies the condition "If X > Y, then S = 1", in its minimized form, is
 - (A) $X_1Y_1 + X_0Y_0$ (B) $X_1\bar{Y}_1 + X_0\bar{Y}_0\bar{Y}_1 + X_0\bar{Y}_0X_1$ (C) $X_1\bar{Y}_1X_0\bar{Y}_0$ (D) $X_1Y_1 + X_0\bar{Y}_0Y_1 + X_0\bar{Y}_0\bar{X}_1$

Q.36 In the circuit below, the light dependent resistor (LDR) receives light from the LED. The LDR has resistances of 5 k Ω and 500 Ω under dark and illuminated conditions, respectively. The LED is OFF at time t < 0. At time t = 0s, the switch S₁ is closed for 1 ms and then kept open thereafter. Assuming zero propagation delay in the devices, the LED

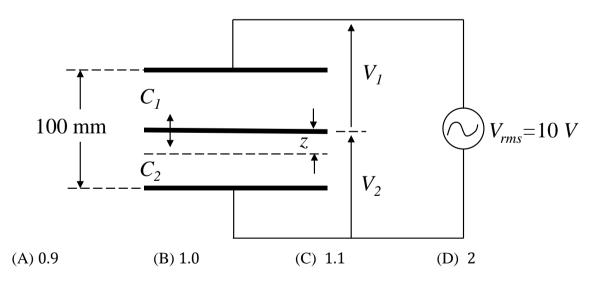


(A) turns ON when S_1 is closed and remains ON after S_1 is opened

- (B) turns ON when S_1 is closed and turns OFF after S_1 is opened
- (C) turns ON when S₁ is closed and toggles periodically from ON to OFF after S₁ is opened

(D) remains OFF when S_1 is closed and continues to remain OFF after S_1 is opened

Q.37 A differential capacitive sensor with a distance between the extreme plates 100 mm is shown in figure below. The difference voltage $\Delta V = V_1 - V_2$, where V_1 and V_2 are the rms values, for a downward displacement of 10 mm of the intermediate plate from the central position, in volts, is



Q.38

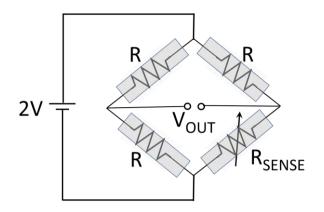
(A) 10 (B) 100 (C) 240 (D) 300

produces a non-zero output, in units of Pa, is approximately

- Q.39 A 100 W light source emits uniformly in all directions. A photodetector having a circular active area whose diameter is 2 cm is placed 1 m away from the source, normal to the incident light. If the responsivity of the photodetector is 0.4 A/W, the photo-current generated in the detector, in units of mA, is
 - (A) 1 (B) 4 (C) 100 (D) 400
- Q.40 A resistance-meter has five measurement range-settings between 200 Ω and 2 M Ω in multiples of 10. The meter measures resistance of a device by measuring a full-range voltage of 2 V across the device by passing an appropriate constant current for each range-setting. If a device having a resistance value in the range 8 k Ω to 12 k Ω and a maximum power rating of 100 μ W is to be measured *safely* with this meter, the choice for range-setting on the meter for best resolution in measurement, in k Ω , is
 - (A) 2 (B) 20 (C) 200 (D) 2000
- Q.41 A pulsed laser emits rectangular pulses of width 1 nanosecond at a repetition rate of 1 kHz. If the average power output is 1 mW, the average power over a single pulse duration, in watts, is
 - (A) 1 (B) 10 (C) 100 (D) 1000

IN

Q.42 Four identical resistive strain gauges with gauge factor of 2.0 are used in a Wheatstone bridge as shown in the figure below. Only one of the strain gauges R_{SENSE} changes its resistance due to strain. If the output voltage V_{OUT} is measured to be 1 mV, the magnitude of strain, in units of microstrain, is

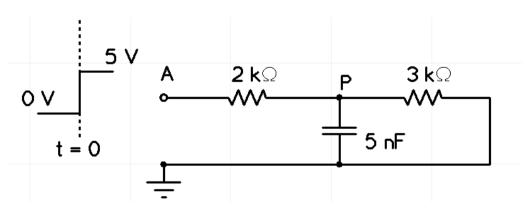


- (A) 1
 (B) 10
 (C) 100
 (D) 1000
- Q.43 The frequency response of a digital filter $H(\omega)$ has the following characteristics Passband: $0.95 \le |H(\omega)| \le 1.05$ for $0 \le \omega \le 0.3\pi$ and

Stopband: $0 \le |H(\omega)| \le 0.005$ for $0.4\pi \le \omega \le \pi$,

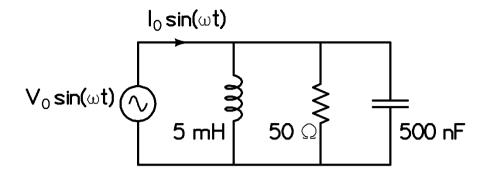
where ω is the normalized angular frequency in rad/sample. If the analog upper cut off frequency for the passband of the above digital filter is to be 1.2 kHz, then the sampling frequency should be _____ kHz.

Q.44 In the circuit shown below, a step input voltage of magnitude 5 V is applied at node A at time t = 0. If the capacitor has no charge for $t \le 0$, the voltage at node P at $t = 6 \mu s$ is ______ V. (Answer should be rounded off to two decimal places)



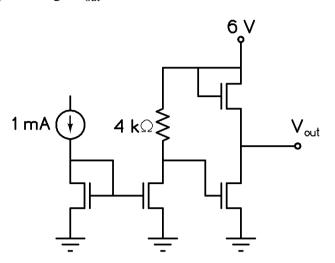
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Q.45 In the circuit shown below, the angular frequency ω at which the current is in phase with the voltage is _____ rad/s.

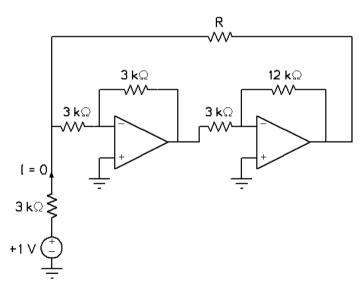


- Q.46 The transfer function relating the input x(t) to the output y(t) of a system is given by G(s) = 1/(s+3). A unit-step input is applied to the system at time t = 0. Assuming that y(0) = 3, the value of y(t) at time t = 1 is _____ (Answer should be rounded off to two decimal places)
- Q.47 The output of a continuous-time system y(t) is related to its input x(t) as $y(t) = x(t) + \frac{1}{2}x(t-1)$. If the Fourier transforms of x(t) and y(t) are $X(\omega)$ and $Y(\omega)$ respectively, and $|X(0)|^2 = 4$, the value of $|Y(0)|^2$ is _____.
- Q.48 A discrete-time signal $x[n] = e^{j(\frac{5\pi}{3})n} + e^{j(\frac{\pi}{4})n}$ is down-sampled to the signal $x_d[n]$ such that $x_d[n] = x[4n]$. The fundamental period of the down-sampled signal $x_d[n]$ is
- Q.49 In a control system with unity gain feedback, the transfer function of the loop-gain function is $L(s) = 9e^{-0.1s}/s$. The phase margin of the loop-gain function L(s) is ______ degree.

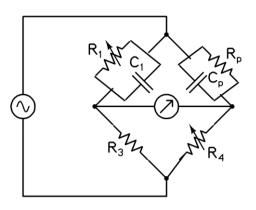
Q.50 In the circuit shown below, all transistors are n-channel enhancement mode MOSFETs. They are identical and are biased to operate in saturation mode. Ignoring channel length modulation, the output voltage V_{out} is _____ V.



Q.51 In the circuit shown below, all OPAMPS are ideal. The current I = 0 A when the resistance $R = ___ k\Omega$.

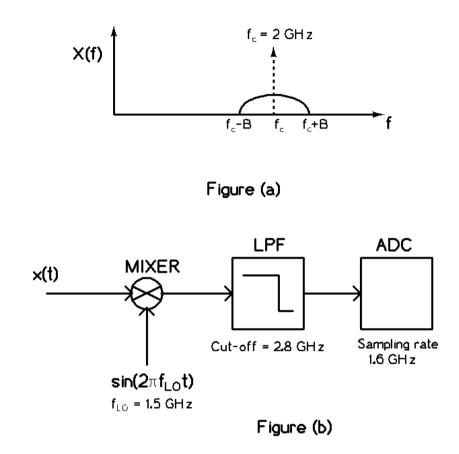


Q.52 The parallel resistance-capacitance bridge shown below has a standard capacitance value of $C_1=0.1\mu$ F and a resistance value of $R_3=10 \text{ k}\Omega$. The bridge is balanced at a supply frequency of 100 Hz for $R_1=375 \text{ k}\Omega$, $R_3=10 \text{ k}\Omega$ and $R_4=14.7 \text{ k}\Omega$. The value of the dissipation factor $D = 1/(\omega R_p C_p)$ of the parallel combination of C_p and R_p is ______.(Answer should be rounded off to **THREE** decimal places)

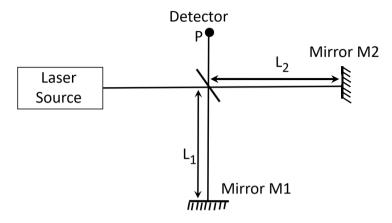


Q.53 In a microprocessor with a 16 bit address bus, the most significant address lines A15 to A12 are used to select a 4096 word memory unit, while lines A0 to A11 are used to address a particular word in the memory unit. If the 3 least significant lines of the address bus A0 to A2 are short-circuited to ground, the addressable number of words in the memory unit is

Q.54 A signal x(t) has a bandwidth 2*B* about a carrier frequency of $f_c = 2$ GHz as shown in Figure (a) below. In order to demodulate this signal, it is first mixed (multiplied) with a local oscillator of frequency $f_{LO} = 1.5$ GHz, and then passed through an ideal low-pass filter (LPF) with a cut-off frequency of 2.8 GHz. The output of the LPF is sent to a digitizer ADC with a sampling rate of 1.6 GHz as shown in Figure (b) below. The maximum value of *B* so that the signal x(t) can be reconstructed from its samples according to the Nyquist sampling theorem is _____ MHz.



Q.55 Consider a Michelson interferometer as shown in the figure below. When the wavelength of the laser light source is switched from 400 nanometer to 500 nanometer, it is observed that the intensity measured at the output port P goes from a minimum to a maximum. This observation is possible when the smallest path difference between the two arms of the interferometer is _____ nanometer.



END OF THE QUESTION PAPER

Q.No.	Туре	Section	Кеу	Marks
1	MCQ	GA	С	1
2	MCQ	GA	С	1
3	MCQ	GA	С	1
4	MCQ	GA	С	1
5	MCQ	GA	А	1
6	MCQ	GA	С	2
7	MCQ	GA	A	2
8	MCQ	GA	С	2
9	MCQ	GA	В	2
10	MCQ	GA	D	2
1	MCQ	IN	С	1
2	MCQ	IN	В	1
3	MCQ	IN	А	1
4	MCQ	IN	В	1
5	MCQ	IN	С	1
6	MCQ	IN	A	1
7	MCQ	IN	А	1
8	MCQ	IN	D	1
9	MCQ	IN	В	1
10	MCQ	IN	С	1
11	MCQ	IN	A	1
12	MCQ	IN	D	1
13	MCQ	IN	В	1

Q.No.	Туре	Section	Кеу	Marks
14	MCQ	IN	D	1
15	MCQ	IN	С	1
16	NAT	IN	10 to 10	1
17	NAT	IN	5 to 5	1
18	NAT	IN	1000 to 1000	1
19	NAT	IN	4 to 4	1
20	NAT	IN	64 to 64	1
21	NAT	IN	256 to 256	1
22	NAT	IN	4 to 4	1
23	NAT	IN	130 to 130	1
24	NAT	IN	20 to 20	1
25	NAT	IN	0.3 to 0.3	1
26	MCQ	IN	В	2
27	MCQ	IN	А	2
28	MCQ	IN	D	2
29	MCQ	IN	С	2
30	MCQ	IN	С	2
31	MCQ	IN	А	2
32	MCQ	IN	В	2
33	MCQ	IN	С	2
34	MCQ	IN	D	2
35	MCQ	IN	В	2
36	MCQ	IN	А	2

Q.No.	Туре	Section	Кеу	Marks
37	MCQ	IN	D	2
38	MCQ	IN	В	2
39	MCQ	IN	A	2
40	MCQ	IN	С	2
41	MCQ	IN	D	2
42	MCQ	IN	D	2
43	NAT	IN	8.0 to 8.0	2
44	NAT	IN	1.87 to 1.91	2
45	NAT	IN	20000 to 20000	2
46	NAT	IN	0.46 to 0.48	2
47	NAT	IN	9 to 9	2
48	NAT	IN	6 to 6	2
49	NAT	IN	37 to 39	2
50	NAT	IN	4 to 4	2
51	NAT	IN	9.0 to 9.1	2
52	NAT	IN	0.035 to 0.045	2
53	NAT	IN	512 to 512	2
54	NAT	IN	300 to 300	2
55	NAT	IN	500 to 500 OR 1000 to 1000	2