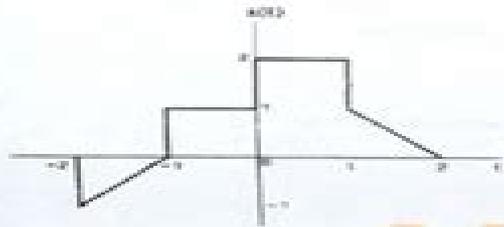




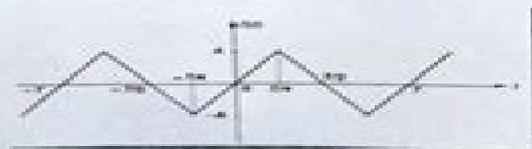
KEEPING MOBILE PHONE/SMART WATCH, EVEN IN 'OFF' POSITION, IS EXAM MALPRACTICE

Answer ALL Questions
(10 X 10 = 100 Marks)

1. For the signal $x(t)$ shown in figure, draw the signals:
- $x(t - 1)$
 - $x(2 - t)$
 - $x(2t + 1)$
 - $x(4 - \frac{t}{2})$
 - $\{x(t) + x(-t)\}u(t)$



2. a) Find whether the following signals are periodic, if yes, find the periodicity [5]
- $x(t) = 2 \cos t + 3 \cos \frac{t}{3}$
 - $x(t) = 2 \cos \pi t + 7 \cos t$
- b) Determine whether the following signals are energy signals or power signals and calculate their energy or power [5]
- $x(t) = \text{rect}\left(\frac{t}{T_0}\right)$
 - $x(t) = \cos^2 \omega_0 t$
 - $x(t) = \text{rect}\left(\frac{t}{T_0}\right) \cos \omega_0 t$
3. The following CT systems are described using their input-output relationships between the input signal $x(t)$ and output $y(t)$. Determine if the CT systems are: (i) linear; (ii) time-invariant; (iii) stable; and (iv) causal.
- $y(t) = x(t - 2)$
 - $y(t) = tx(t + 10)$
 - $y(t) = \begin{cases} x(t) - x(t - 5) & t \geq 0 \\ 0 & t < 0 \end{cases}$
4. Obtain the trigonometric Fourier series of the periodic waveform shown in the figure below:



$$\frac{1}{2\pi} \int_{-\pi}^{\pi} f(t) e^{j2\omega_0 t} dt = \frac{1}{2\pi} \left[\int_{-\pi}^{-\pi/2} -t e^{j2\omega_0 t} dt + \int_{-\pi/2}^{\pi/2} t e^{j2\omega_0 t} dt + \int_{\pi/2}^{\pi} -t e^{j2\omega_0 t} dt \right]$$

$$= \frac{1}{2\pi} \left[\frac{-t^2}{2} e^{j2\omega_0 t} + \frac{t}{j2\omega_0} e^{j2\omega_0 t} \right]_{-\pi}^{-\pi/2} + \frac{1}{2\pi} \left[\frac{t^2}{2} e^{j2\omega_0 t} - \frac{t}{j2\omega_0} e^{j2\omega_0 t} \right]_{-\pi/2}^{\pi/2} + \frac{1}{2\pi} \left[\frac{-t^2}{2} e^{j2\omega_0 t} + \frac{t}{j2\omega_0} e^{j2\omega_0 t} \right]_{\pi/2}^{\pi}$$

$$= \frac{1}{2\pi} \left[\frac{-\pi^2}{2} e^{-j2\omega_0 \pi} + \frac{-\pi}{j2\omega_0} e^{-j2\omega_0 \pi} \right] + \frac{1}{2\pi} \left[\frac{\pi^2}{2} e^{j2\omega_0 \pi} - \frac{\pi}{j2\omega_0} e^{j2\omega_0 \pi} \right] + \frac{1}{2\pi} \left[\frac{-\pi^2}{2} e^{j2\omega_0 \pi} + \frac{\pi}{j2\omega_0} e^{j2\omega_0 \pi} \right]$$

$$= \frac{1}{2\pi} \left[\frac{-\pi^2}{2} (1) + \frac{-\pi}{j2\omega_0} (1) \right] + \frac{1}{2\pi} \left[\frac{\pi^2}{2} (1) - \frac{\pi}{j2\omega_0} (1) \right] + \frac{1}{2\pi} \left[\frac{-\pi^2}{2} (1) + \frac{\pi}{j2\omega_0} (1) \right]$$

$$= \frac{1}{2\pi} \left[\frac{-\pi^2}{2} + \frac{-\pi}{j2\omega_0} + \frac{\pi^2}{2} - \frac{\pi}{j2\omega_0} - \frac{\pi^2}{2} + \frac{\pi}{j2\omega_0} \right] = \frac{1}{2\pi} \left[\frac{-\pi}{j2\omega_0} - \frac{\pi}{j2\omega_0} + \frac{\pi}{j2\omega_0} \right] = \frac{1}{2\pi} \left[\frac{-\pi}{j2\omega_0} \right] = \frac{j\pi}{4\omega_0}$$

Signal And System Question Paper Answer

JL Elias



Signal And System Question Paper Answer:

This book delves into Signal And System Question Paper Answer. Signal And System Question Paper Answer is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Signal And System Question Paper Answer, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Signal And System Question Paper Answer
- Chapter 3: Signal And System Question Paper Answer in Everyday Life
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- Chapter 5: Conclusion

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