



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:

- (a) $x(t - 1)$
(b) $x(2 - t)$
(c) $x(2t + 1)$
(d) $x(4 - \frac{t}{2})$
(e) $\{x(t) + x(-t)\}u(t)$



2. a) Find whether the following signals are periodic, if yes, find the periodicity

i. $x(t) = 2 \cos t + 3 \cos \frac{t}{3}$

ii. $x(t) = 2 \cos \pi t + 7 \cos t$

[5]

- b) Determine whether the following signals are energy signals or power signals and calculate their energy or power

a) $x(t) = \text{rect}\left(\frac{t}{T_0}\right)$

b) $x(t) = \cos^2 \omega_0 t$

c) $x(t) = \text{rect}\left(\frac{t}{T_0}\right) \cos \omega_0 t$

[5]

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.

(a) $y(t) = x(t - 2)$

(b) $y(t) = tx(t + 10)$

(c) $y(t) = \begin{cases} x(t) - x(t - 5) & t \geq 0 \\ 0 & t < 0 \end{cases}$

4. Obtain the trigonometric Fourier series of the periodic waveform shown in the figure below:



Handwritten solution for the Fourier series of the triangular waveform:

$$\frac{1}{2\pi} \int_{-\pi}^{\pi} f(t) e^{j n \omega_0 t} dt = \frac{1}{2\pi} \left[\int_{-\pi}^0 t e^{j n \omega_0 t} dt + \int_0^{\pi} (2-t) e^{j n \omega_0 t} dt \right]$$

$$= \frac{1}{2\pi} \left[\frac{t^2}{2} e^{j n \omega_0 t} - \frac{t}{j n \omega_0} e^{j n \omega_0 t} \right]_{-\pi}^0 + \frac{1}{2\pi} \left[\frac{(2-t)^2}{2} e^{j n \omega_0 t} - \frac{(2-t)}{j n \omega_0} e^{j n \omega_0 t} \right]_0^{\pi}$$

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

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

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