

PART B — (5 × 16 = 80 marks)

11. (a) (i) A LTI system with impulse response $h(n) = u(n) - u(n-6)$ is excited by an input $x(n) = [u(n-1) - u(n-5)]$. Determine the output of the system. (8)
- (ii) Examine whether the following system are linear, time-invariant, causal and stable or not
- (1) $y(n) = x(n/2 + 2)$
- (2) $y(n) = x(n) \cos \omega_0 n$. (8)

Or

- (b) (i) Determine the convolution and correlation of the sequence $x(n) = \{1, -1, 2, -3, 3\}$ and $h(n) = \{0.5, 1, 1, 2, 2\}$. (8)
- (ii) For the analog signal $x(t) = 3 \cos 2000\pi t + 5 \sin 6000\pi t + 10 \cos 12000\pi t$, find the following (1) Nyquist sampling rate (2) discrete time signal if the analog signal $x(t)$ sampled using $F_s = 5000$ samples/sec. (8)

12. (a) (i) Determine the final value of the following Z -transform.
- (1) $\frac{(2z+1)(z-2)}{z(z-1)}$
- (2) $\frac{z+1}{2(z^2+1)(z-0.9)}$. (8)
- (ii) Find the inverse Z -transform of $X(z) = \frac{z}{3z^2 - 4z + 1}$ for the ROC
- (1) $|z| < 1/3$
- (2) $1/3 < |z| < 1$. (8)

Or

- (b) (i) Determine the magnitude of phase response of the system whose difference equation $y(n) - \frac{1}{4}y(n-1) = x(n) - x(n-1) + 2x(n-2)$. (8)
- (ii) Determine the stability of the system
- $$y(n) - 1/4 y(n-1) + 1/4 y(n-2) - 1/16 y(n-3) = 2x(n) + 3x(n-1). \quad (8)$$

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