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Total Number of Pages: 2

**B.Tech**  
**PCBM4302**

**5<sup>th</sup> Semester Regular / Back Examination 2016-17**

**SIGNALS AND SYSTEMS**

**BRANCH: AEIE, BIOTECH, ECE, EIE, ETC**

**Time: 3 Hours**

**Max Marks: 70**

**Q.CODE: Y289**

**Answer Question No.1 which is compulsory and any five from the rest.  
The figures in the right hand margin indicate marks.**

- Q1**      **Answer the following questions:**      **(2 x 10)**
- a) State whether the following discrete time system is static or dynamic where  $y(n) = \log_{10}|x(n)|$
  - b) State whether the following system is BIBO stable or not where  $y(n) = x(n) - x(-n-1) + x(n-1)$
  - c) Prove that  $a_0 = 0$  and  $a_n = 0$  (where  $a_0$  and  $a_n$  represents trigonometric Fourier Series Coefficients) if  $x(t)$  exhibits odd symmetry.
  - d) Find the Fourier transform of  $A$  (constant).
  - e) Find the Z transform of  $x^*(n)$ .
  - f) Determine the energy and power of a d.t. unit step signal.
  - g) Find the DFT of  $\delta(n)$ .
  - h) Find the DFT of a purely real and even signal  $x(n)$ .
  - i) Distinguish between FIR and IIR systems.
  - j) Prove that autocorrelation at zero lag represents energy of a discrete time signal  $x(n)$ .
- Q2**      Define autocorrelation and cross correlation. Show that autocorrelation is an even function of lag 'l' and it is maximum at zero lag.      **(2+8)**
- Q3**      a) Prove that the Parseval's relation in the Z domain      **(5)**
- $$\sum_{n=-\infty}^{\infty} x_1(n)x_2^*(n) = \frac{1}{2\pi j} \int_{\gamma} X_1(z)X_2^*\left(\frac{1}{z^*}\right)z^{-1}dz$$
- b) Find the linear convolution between  $x_1(n) * x_2(n)$  where      **(5)**
- $$x_1(n) = \{1, \frac{2}{3}, 3, 4\} \text{ and } x_2(n) = \{-1, 0, \frac{1}{3}, 2\} \text{ using graphical method.}$$

# Nlogic Systems Question Papers 22

**Ian Pickup**



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