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Total Number of Pages: 2

B.Tech
PCBM1302

5th 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)**
- $$x_1(n) = \{1, \frac{2}{3}, 3, 4\} \text{ and } x_2(n) = \{-1, 0, \frac{1}{3}, 2\} \text{ using graphical method.}$$

Bput Semester Question Paper

Patrizia Bocchetta



Bput Semester Question Paper:

Engineering Chemistry I (for BPUT) Patrizia Bocchetta, 2024 *ENGINEERING CHEMISTRY WITH LABORATORY EXPERIMENTS* MOHAPATRA, RANJAN KUMAR, 2015-10-09 This book is primarily intended for the first year B Tech students of all branches for their course on engineering chemistry The main objective of this book is to provide a broad understanding of the chemical concepts theories and principles of Engineering Chemistry in a clear and concise manner so that even an average student can grasp the intricacies of the subject It includes the general concepts of structure and bonding phase rule solid state reaction kinetics and catalysis electrochemistry chemical thermodynamics and free energy Besides the book introduces topics of applied chemistry like water technology polymer chemistry and nanotechnology Each theoretical concept is well supported by illustrative examples The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts KEY FEATURES i Each chapter of the book provides a clear and easy understanding of the definitions theories and principles ii A large number of well labelled diagrams help to understand the concepts easily and clearly iii Chapter wise glossary and important mathematical relations are given for quick revision iv Provides multiple choice questions with answers short questions and long questions for practice

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