

CBCS SCHEME

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17EC52

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Digital Signal Processing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Show that finite duration sequence of length L can be reconstructed from the equidistant N samples of its Fourier transform, where $N \geq L$. (06 Marks)
- b. Compute the 6-point DFT of the sequence $x(n) = \{1, 0, 3, -1, 3, 0\}$. (08 Marks)
- c. Find the N -point DFT of the sequence $x(n) = a^n$, $0 \leq n \leq N-1$. (06 Marks)

OR

- 2 a. Determine the 6-point sequence $x(n)$ having the DFT $X(K) = \{12, -3 - j\sqrt{3}, 0, 0, 0, -3 + j\sqrt{3}\}$. (08 Marks)
- b. Derive the equation to express z -transform of a finite duration sequence in terms of its N -point DFT. (06 Marks)
- c. Compute the circular convolution of the sequences $x_1(n) = \{1, 2, 2, 1\}$ and $x_2(n) = \{-1, -2, -2, -1\}$. (06 Marks)

Module-2

- 3 a. State and prove the modulation property (multiplication in time-domain) of DFT. (06 Marks)
- b. The even samples of an eleven-point DFT of a real sequence are: $X(0) = 8$, $X(2) = -2 + j3$, $X(4) = 3 - j5$, $X(6) = 4 + j7$, $X(8) = 5 - j9$ and $X(10) = \sqrt{3} - j2$. Determine the odd samples of the DFT. (06 Marks)
- c. An LTI system has impulse response $h(n) = \{2, 1, -1\}$. Determine the output of the system for the input $x(n) = \{1, 2, 3, 3, 2, 1\}$ using circular convolution method. (08 Marks)

OR

- 4 a. State and prove circular time reversal property of DFT. (06 Marks)
- b. Determine the number of real multiplications, real additions, and trigonometric functions required to compute the 8-point DFT using direct method. (04 Marks)
- c. Find the output $y(n)$ of a filter whose impulse response is $h(n) = \{1, 2, 1\}$, and the input is $x(n) = \{1, 2, 0, 1, 3, 2, 0, 1, 2, 1\}$ using overlap-add method, taking $N = 6$. (10 Marks)

Module-3

- 5 a. Compute the 8-point DFT of the sequence $x(n) = \cos(\pi n/4)$, $0 \leq n \leq 7$, using DFT-FFT algorithm. (10 Marks)
- b. Given $x(n) = \{1, 2, 3, 4\}$, compute the DFT sample $X(3)$ using Goestzel algorithm. (06 Marks)
- c. Determine the number of complex multiplications and complex additions required to compute 64-point DFT using radix-2 FFT algorithm. (04 Marks)

1 of 2

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any involving of identification, appeal to evaluate and/or equations written eg. Q-8-9), will be treated as malpractice.

Digital Signal Processing Solved Question Paper

RJ Alexander



Digital Signal Processing Solved Question Paper:

Basic System Analysis I.U. Khan, Jaishri Panjwani, 2012-06-19 This book deals with properties and classification of Basic System Analysis The several chapters introduce the important principles and properties of Fourier Transform Continuous time Laplace Transform Z Transform Fourier series linear time invariant LTI systems Convolution etc This subject covers basic concepts required for Digital signal processing Communication systems Networks and similar subjects This book is being written keeping average and below average student in mind Difficult topics are to be simplified for an easy to understand language To get the edge in competitive market we are including Objective type questions with answers Questions bank with answers Question bank includes important questions This book consists of five chapters in all and covers the complete syllabus of Basic System Analysis of Technical University It also covers the major portion of the syllabus of other university We have also added Model question papers in the end of the book Features of the book Comprehensive treatment of the following topics Continuous time Fourier series Continuous time Fourier Transform Laplace Transform is discussed in detailed with their properties Devoted to Z transform and its use in signals and systems analysis Solution of Previous year question papers of U P Technical University Covers 100% syllabus of Technical University and a major portion of syllabus of other universities More than 400 worked out examples and more than 100 assignment problems with answers are given Objective type questions with answers Questions bank with answers Question bank includes important questions are included Large number of illustrative diagrams and solved examples for better understanding

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Circuits, Systems and Signal Processing Suhash Chandra Dutta Roy,2018-03-24 This book

is a collection of tutorial like chapters on all core topics of signals and systems and the electronic circuits All the topics dealt with in the book are parts of the core syllabi of standard programs in Electrical Engineering Electrical and Computer Engineering and Electronics and Telecommunication Engineering domains This book is intended to serve as a secondary reader or supplementary text for core courses in the area of signals and systems electronic circuits and analog and digital signal processing When studying or teaching a particular topic the students and instructors of such courses would find it interesting and worthwhile to study the related tutorial chapter in this book in order to enhance their understanding of the fundamentals simplification of procedures alternative approaches and relation to other associated topics In addition the book can also be used as a primary or secondary text in short term or refresher courses and as a self study guide for professionals wishing to gain a comprehensive review of the signals and systems domain

Digital Signal Processing Antonio Luque,A. R. Figueiras-Vides,Aníbal R. Figueiras-Vidal,Vito Cappellini,1985 *Digital Signal Processing* S.P. Eugene Xavier,2003 A lot of Effort has been made to find simple ways to provided the theory of digital Signal Processing Yhe Background for reading the book consists of the usual principles involved in handling signals through systems There are over 200 solved examples Review questions tutorials problems with answers to select problems University Model Question Papers ect

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