

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 $X(K) = \{12, -3 - j\sqrt{3}, 0, 0, 0, -3 + j\sqrt{3}\}$. (06 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 : $X(0) = 8$, $X(2) = -2 + j3$, $X(4) = 3 - j5$, $X(6) = 4 + j2$, $X(8) = -5 - j9$ 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 $x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$ 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 DIT-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 revoking of identification, appeal to evaluate and/or equating written off. (Q-8-9), will be treated as malpractice.

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Digital Signal Processing in Audio and Acoustical Engineering Francis F. Li,Trevor J. Cox,2019-04-02 Starting with essential maths fundamentals of signals and systems and classical concepts of DSP this book presents from an application oriented perspective modern concepts and methods of DSP including machine learning for audio acoustics and engineering Content highlights include but are not limited to room acoustic parameter measurements filter design codecs machine learning for audio pattern recognition and machine audition spatial audio array technologies and hearing aids Some research outcomes are fed into book as worked examples As a research informed text the book attempts to present DSP and machine learning from a new and more relevant angle to acousticians and audio engineers Some MATLAB codes or frameworks of algorithms are given as downloads available on the CRC Press website Suggested exploration and mini project ideas are given for proof of concept type of exercises and directions for further study and investigation The book is intended for researchers professionals and senior year students in the field of audio acoustics

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