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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.*

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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 $x(n) = \{1, 0, 3, 2, 3, 0\}$. **(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 $x(n) = \{3, -4, 5, 6, 1, 3, 2, 0, 1, 2, 1\}$ 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)**

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Yi-Tong Ma

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