

## 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 Question Paper

**Jin-Ying Zhang**



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