

## 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)

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**Thirumalaisamy P.  
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web tangier tæn'dʒɪər tan jeer arabic تَنْجَاة romanized Ṭanjāh berber languages ⵜⴰⵏⴳⵉⴷⴰ romanized Ṭanja is a city in northwestern morocco on the coasts of the mediterranean sea and the atlantic ocean the city is the capital of the tanger tetouan al hoceima region as well as the tangier assilah prefecture of morocco

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web in fact tangier is home to around one million people nevertheless the best things to see in tangier are concentrated in just a few neighbourhoods which means you can easily explore on foot must visit places include the kasbah the medina 9 april 1947 square the great mosque and the famous café hafa