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17EC52

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

Time: 3 bes.

Miner Minerkey

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

### Module-1

- Show that finite duration sequence of length L can be reconstructed from the equidistant N samples of its Fourier transform, where N ≥ L. collect National Revolu-(998 Marriso)
  - Compute the 6 -- point DFT of the sequence x(n) = {1, 0, 3,
  - Find the N-point DFT of the sequence x(n) = a<sup>n</sup>, 0 ≤ n ≤ N

006 Market

Determine the 6-point sequence x(n) having the DP

 $N(K) = \{12, -3 - j\sqrt{3}, 0, 0, 0, -3 + j\sqrt{3}\}.$ 

(008 Maurico)

- b. Derive the equation to express z transform of a wate duration sequence in terms of its Ni-point DETE.
- c. Compute the circular convolution of the accordances  $x_0(n) = \{1, 2, 2, 1\}$  and  $x_3(n) = (-1, -2, -2, -1)$ .

#### Module-2

- State and prove the modulation property (multiplication in time-domain) of DFT. (86 Marks)
  - The even samples of an eleven point DHT of a real sequence are : N(0) = 8, N(2) = -2 + j3, N(4) = 3 - j5, N(6) = 4 + jp N(4) = -5 - j9 and  $N(10) = \sqrt{3} - j2$ . Determine the odd samples color Nilmer Revit.
    - An LTI system has impulse response  $h(n) = \{2, 1, -1\}$ . Determine the output of the system for the input  $x(n) = \{1, 2, 3, 3, 3, 4, 4\}$  using circular convolution method. (08 Marko)

State and prove circular time reversal property of DFT.

- (066 Minerios)
- Determine the number of real multiplications, real additions, and trigonometric functions required to compute the 8-point DFT using direct method. (004 Milantics)
- Find the output y(n) of a filter whose impulse response is  $h(n) = \{1, 2, 1\}$ , and the input is x(n) = 1.4 h, 0, 1, 3, 2, 0, 1, 2, 1) using overlap - add method, taking N = 6. #100 Pullmer books

#### Miodule-3

- of pute the 8-point DFT of the sequence  $x(n) = \cos(\pi n/4)$ ,  $0 \le n \le 7$ , using DIT-FFT (D9 Niberion)
  - given x(n) = {1, 2, 3, 4}, compute the DFT sample X(3) using Goestzel algorithm. OBS Milestics)
  - Determine the number of complex multiplications and complex additions required to compute 64-point DFT using radix.2 FFT algorithm. 69-4 Minerless)

1 of 2

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