USN | | | | | | | | | | **18EC52**

Fifth Semester B.E. Degree Examination, Jan./Feb. 2023
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.   State and prove circular time shift property.   (06 Marks)

   b.   Find the 4-point DFT of the sequence $x(n) = Cos\left(\frac{\pi}{4}n\right) + Sin\left(\frac{\pi}{4}n\right)$ use linearity property. (08 Marks)

   c.   Consider 4-point sequences $x(n) = Cos\left(\frac{\pi n}{2}\right); 0 \le n \le 3$

   $$h(n) = 2^n; \quad 0 \le n \le 3$$

   Compute circular convolution. Using concentric circle method.   (06 Marks)

OR

2   a.   State and prove Parseval's theorem.   (06 Marks)

   b.   Find 6-point DFT of the sequence

   $x(n) = n; \quad 0 \le n \le 5$

   $= 0; \quad$ otherwise   (08 Marks)

   c.   Find the IDFT of the DFT $X(K) = \{6, -2 + j2, -2, -2 - j2\}$.   (06 Marks)

Module-2

3   a.   Consider a FIR with filter whose impulse response $h(n) = \{3, 2, 1, 1\}$ if the input is $x(n) = \{1, 2, 3, 3, 2, 1, -1, -2, -3, 5, 6, -1, 2, 0, 2, 1\}$, find the output using over lap add method assuming the length of block as 7. (10 Marks)

   b.   Develop Radix-2 DIT-FFT algorithm and draw complete signal flow graph for N = 8. (10 Marks)

OR

4   a.   Find the output y(n) of a filter whose impulse response in $h(n) = \{1, 1, 1\}$ and the input signal to the filter is $x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$. Using overlap save method. (10 Marks)

   b.   First five point of the Eight point DFT of a real valued sequence is given by

   $x(0) = 0, \quad x(3) = 2 - 2j$

   $x(1) = 2 + 2j \quad x(4) = 0$

   $x(2) = -j4$

   Determine the remaining points. Hence find the original sequence x(n) using Decimation in frequency FFT algorithm. (10 Marks)

Module-3

5   a.   List the different types of windowing techniques used in the design of FIR filters. Write the analytical equations, draw the magnitude response and show the largest side lobe value below the dc magnitude. (08 Marks)

   b.   The frequency response of an FIR filter is given by

   $H(\omega) = e^{-j3\omega}(1 + 1.8\cos3\omega + 1.2\cos2\omega + 0.5\cos\omega)$

   Determine the coefficient of the impulse response h(n) of the FIR filter. (06 Marks)

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