Synoptic of MSE Course: Digital Signal Processing CPC701

Date 21/08/2018 & Time: 2 to 3:30pm

Q.1 5M

1. Equation for Nyquist rate according to sampling theorem =1M
2. Finding Nyquist rate = 1M
3. Evaluating sampling technique = 3M

Q.2 5M

1. Evaluation = 1.5M (each)
2. Sketching of discrete time signal = 1M (each)

Q.3 5M

1. Finding length of y(n) = 1 M
2. Computation of Linear Convolution = 4M

OR

Q.3 5M

1. Finding length of y(n) = 1M
2. Creating the zero padded sequences =1M
3. Computation of LC by Circular Convolution circulant matrix =3M

Q.4 5M

1. Equation of DFT carry = 1M
2. Determining values of DFT signal X(K) = 3M
3. Finding the magnitude sequence = 0.5M
4. Plotting the magnitude spectrum = 0.5M

OR

Q.4 5M

1. Equation of IDFT carry = 1M
2. Determining values of IDFT signal x(n) = 4M

Q.5 5M

1. Equation of Linear convolution = 1M
2. Evolution = 3.5M
3. Conclusion or Justification = 0.5M

Q.6 5M

1. Evolution = 2M(each)
2. Justification = 0.5M

OR

Q.6 5M

1. Evalution = 2M(each)
2. Justification = 0.5M