Sessional-II

Signals and Systems

ECE- A and B

Q1. Define the linearity of a system. Check the linearity of system with output $y(t)= x(\sin(t))$. (5)

Q2. Find the convolution sum of $x(t)= (2,3,4,5,1)$ and $h(t)= (3,2)$ with $x[0]= 3$ and $h[0]= 2$. (5)

Q3. Explain autocorrelation with its properties and proof. (5)