

**Concept Question 7-21:** What is the difference between DFT and DTFS?

DFT  $\mathbf{X}[k]$  of degree  $N$  is related to coefficients  $\mathbf{x}[k]$  of DTFS of a periodic signal with period  $N$  by  $\mathbf{X}[k] = N\mathbf{x}[k]$ .