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## For Questions, Notes, Syllabus & Results EC 8352 Signals and Systems

## **Important 2mark questions**

### <u>Unit I</u>

- 1. Give the mathematical and graphical representations of a discrete time ramp sequence.
- 2. Check whether the following system is Time Invariant/ Time variant and also casual/non casual:  $Y(t) = x(\frac{t}{2})$ .
- 3. Define a linear system.

#### <u>Unit II</u>

- 1. State Dirichlet's conditions.
- 2. Find the Fourier transform of  $x(t) = e^{-at}u(t)$ .
- 3. State Parseval's theorem for a continuous time aperiodic signal.

#### <u>Unit III</u>

- 1. If the system function  $H(s) = 4 \frac{3}{s+2}$ ; Re(s) > -2, find the impulse response h(t).
- 2. Will there be two different signals having same Laplace transform? Give an example. How do you differentiate these two signals?
- 3. Give the expression for convolution integral.

### <u>Unit IV</u>

- 1. List the ROC properties of Laplace transform.
- 2. Find the Z transform of a sequence  $x[n] = cos(n_{\omega T})u[n]$ .
- 3. What is the Z transform of a unit step sequence?

## <u>Unit V</u>

- 1. Write the condition for stability of a DT-LTI system with respect to the position of poles.
- 2. Realize the difference equation y[n] = x[n] 3x[n-1] in direct form I.
- 3. What is the difference between recursive and nonrecursive systems?