

Department of Electronics & Communication Engineering

Faculty of Engineering, Integral University, Lucknow

Quiz 01

Signals & Systems (IEC-402)

Candidate Name & Roll Number :

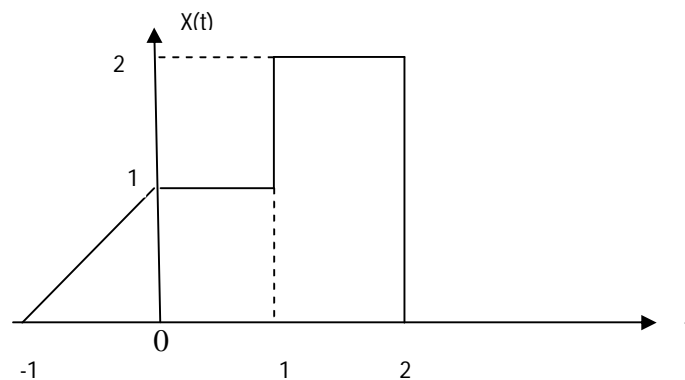
Date :

Maximum Marks : 10

Group: Second Year EC-2

Attempt all questions.

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1. Let a continuous time signal $x(t)$ represented as below figure.

Sketch each of the following

- (a). $X(t)U(1-t)$ (b). $X(t)\delta(t-1.5)$
 (c). $X(-3t+1)$ (d). $X(2t-1)$

2. Test the causality and linearity of signals:

- (a). $y(t) = 10x(t) + 7$ (b). $y(t) = x(t + 10) + x^2(t)$
 (c). $y(t) = 3\sin(t) + 5$ (d). $y[n] = x[n+1] + x[n]$