



Department of Computer Systems Engineering
University of Engineering & Technology
Peshawar, PAKISTAN

Subject: Signal and Systems (4th Semester)

Exam: Mid Term (Spring 2020)

Max Marks: 20

Attempt All Questions. **Time allowed** : **by parts**

Registration No. _____

Question 1:

- 1) Find and sketch the even and odd parts of the continues time signal $x(t)$ and discrete-time signal $x[n]$ given in Figure-1; where, (CLO1) **(4 Marks)**

U = Digit at unit place of your registration number

T = Digit at tens place of your registration number

Note: Figure is not to scale, as the values are based on your registration numbers

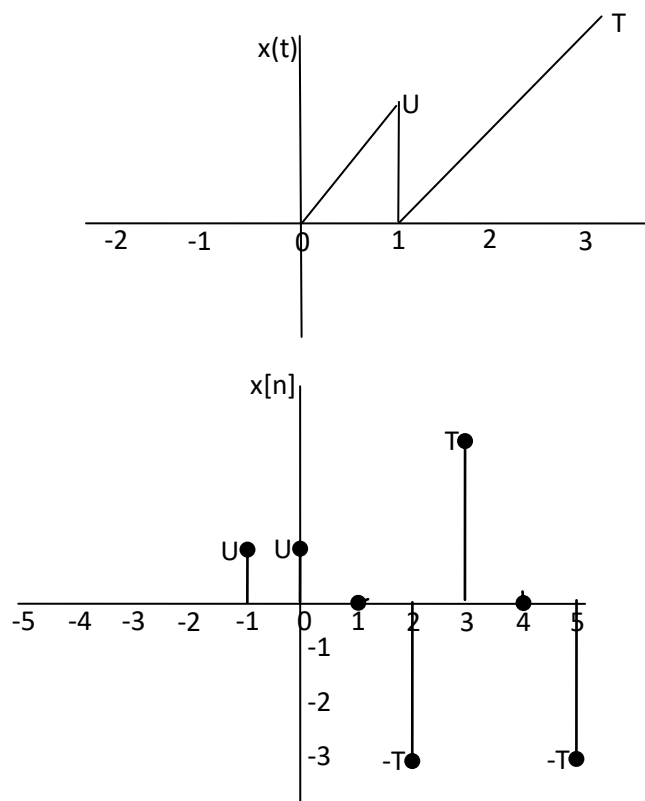


Figure-1

- 2) What are energy signals and power signal? Can a signal be both energy and power signal? Can a signal be neither energy nor power signal? (CLO1) **(2 Marks)**