## **ECE 3710**

## Quiz 4

## **Topic: Chapter 2, Probability and Discrete Random Variables**

## Name(s):

1. *X* is a discrete random variable with the following outcomes and distributions.

x	0	1	3	4	5
p(X=x)	0.1	0.2	0.2	0.4	0.1

Answer to the following parts. Show your work.

- a) *p*(*x*≤4)
- b)  $p(1 \le x < 3)$
- c) Mean of x
- d) Sketch the probability mass function (pmf) f(x).
- e) Sketch the cumulative distribution function (cdf) F(x).