

INFORMATION THEORY

HOMEWORK # 1:

Please work out the **six** (6) problems stated below – CT refers to the text: Thomas M. Cover and Joy A. Thomsa, *Elements of Information Theory*, Second Edition, John Wiley & Sons, 2006. With this in mind, Problem **2-2** (CT) refers to Exercise 2 for Chapter 2 of CT.

Show work and **explain** reasoning. Two (2) problems, selected at random amongst these six problems, will be marked.

1. _____
Solve Problem **2-2** (CT) – See also Problem **2-4** (CT).

2. _____
Solve Problem **2-3** (CT).

3. _____
Solve Problem **2-8** (CT).

4. _____
Solve Problem **2-10** (CT).

5. _____
Solve Problem **2-38** (CT).

6. _____
Solve Problem **2-14** (CT).
