

INFORMATION THEORY

HOMEWORK # 4:

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 **4-5** (CT).

2. _____
Solve Problem **4-7** (CT).

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

4. _____
Solve Problem **4-11** (CT).

5. _____
Solve Problem **4-14** (CT).

6. _____
Solve Problem **4-16** (CT).
