## ECS 452: Exercise 4 Solution

## **Instructions**

- 1. Separate into groups of no more than three persons.
- 2. The group cannot be the same as your former groups.
- 3. Only one submission is needed for each group.
- 4. **Write down all the steps** that you have done to obtain your answers. You may not get full credit even when your answer is correct without showing how you get your answer.
- Name ID
  Prapun 555

- 5. Do not panic.
- 1. For each of the following DMC's probability transition matrices **Q**, (i) indicate whether the corresponding DMC is weakly symmetric (Yes or No), (ii) evaluate the corresponding capacity value (your answer should be of the form X.XXXX), and (iii) specify the channel input pmf (a row vector **p**)

