Artificial Intelligence [CSE422]  
 Quiz 4 [CO4]

NAME: ID: Section:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 1:

| Participation  (in movement) | Injured | Preparation  (for final) | Decision  (course drop) |
| --- | --- | --- | --- |
| Yes | No | Good | Yes |
| Yes | No | Average | No |
| Yes | Yes | Good | No |
| No | Yes | Bad | Yes |
| Yes | No | Good | Yes |
| No | Yes | Bad | No |
| Yes | No | Average | Yes |
| No | Yes | Average | No |
| No | Yes | Good | No |
| Yes | No | Bad | Yes |

Based on the distribution table answer the following question:

1. What is the probability of being injured given that a student participated in the movement? [3]
2. What is the probability of not dropping a course given that a student participated in the movement and got injured and preparation for final is average? [7]