



BRAC University
Department of Computer Science and Engineering
CSE 422: Artificial Intelligence
Quiz 05: Fall 2024 Time: 30 Minutes Marks: 10

Name:

ID:

1. Since the pandemic situation has improved, BRACU CSE is considering taking physical classes. So a survey has been done on 500 students to find out if they are interested in physical class. Half of the participants were seniors(3rd and 4th year) and the other half juniors. The following is the survey result : Among the seniors, 180 live in Dhaka city and 120 of them are interested to go back to physical class. 40 of the seniors who live outside Dhaka want to remain online. Among the juniors, 200 live in Dhaka and half of them want physical class. 20% of the juniors living outside Dhaka want to remain online.
 - (a) Your first task is to find three variables, C(category), L(location) and T(type of class). Find the full joint distribution table $P(C, L, T)$ [5]
 - (b) Find $P(T|L)$. [5]