
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
Algorithmic Game Theory 2020-21: Assignment-3

Deadline: 11:55pm, 12th Oct 2020

Full Marks: 10

Subject No: CS60025

Subject: Algorithmic Game Theory

Department/Center/School: COMPUTER SCIENCE AND ENGINEERING

Answer all the questions.

Prove or disprove the following based on your roll number.

▷ **If your roll number ends with an odd integer:**

a. **Every CE of a matrix game is an MSNE.**

[5 Marks]

b. **Expected utility of row player in every CCE is the value of the game.**

[5 Marks]

▷ **If your roll number ends with an even integer:**

a. **Every CCE of a matrix game is an MSNE.**

[5 Marks]

b. **Expected utility of row player in every CE is the value of the game.**

[5 Marks]