

CS3191

Test your understanding!

Test 2: Equilibrium Point and Value

Question 1 How many equilibrium points does the following game have?

2

4

5

6

-1	-1	-2	1
1	2	1	2
0	-1	0	-2
1	1	1	1

Question 2 What is the value of the following game?

0

1

-1

Has no value.

0	-1	0
1	0	-1
0	0	-1

Question 3 Which of the following are correct?

Two equilibrium points for the same game always lead to the same pay-off for all players.

At an equilibrium point the pay-offs for all players must be equal.

If players move away from their equilibrium point strategy their pay-off cannot improve, but may get worse.

If one player moves away from his equilibrium point strategy then his pay-off cannot improve, but may get worse.

Question 4 Which of the following are correct?

In a 2-person zero-sum game there always is a value for the game.

If the value of a 2-person zero-sum game is -2 then Player 1 loses at least 2 units in every round.

If the value of a 2-person zero-sum game is -2 then Player 1 can make sure that he does not lose more than 2 units in each round on average.

If the value of a 2-person zero-sum game is -2 then Player 1 shouldn't play an equilibrium point strategy because he'll just lose.