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| **AY 2024-2025** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Surname:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Matricola:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Microeconomics II Mock test for the 2nd part***Prof. Nicola Dimitri*  |

# You can use the calculator if needed. Smartphones, lecture notes and books are not allowed. You have 1 hour and 30 minutes.

**1. (11 points)**

Consider the Arrow Debreu (AD) economy seen in class, with one commodity, two consumers and , and two states and . Suppose the endowments are for the first consumer and for the second consumer. Finally, assume that for both consumers the utility function is with and that they share the same probabilities over the two states. Find the AD (price and allocation) equilibrium of the economy.

**2. (11 points)**

Discuss the Vickrey auction as a truth revealing mechanism

**3. (11 points)**

Consider two agents, and . Agent can be of just one type while player can be of two types, and . The two agents have the following preferences over three alternatives .

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Discuss if agent has an incentive to reveal his true preferences with the following Social Choice Functions:

1.