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| **AY 2024-2025**  Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Surname:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Matricola:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Microeconomics II; mock Mid Term Test**  *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 following technology with one output and two inputs, and ,

where . If and are, respectively, the unit proces of and find the profit function and the cost function associated to this technology. Moreover, verify if the technology has increasing, constant or decreasing return of scale.

**2. (11 points)**

Discuss the Walrasian Equilibrium

**3. (11 points)**

Consider the Walrasian economy seen in class, with two commodities, 1 and 2 and two consumers 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 Find the Walrasian Equilibrium (price and consumption allocation) of the economy.