

DNI number _____ Surnames _____ Name _____

AN EXCESSIVE AMOUNT OF SPELLING OR GRAMMATICAL MISTAKES (≥ 10) WILL BE PENALIZED

1. [1.5%] Indicate some feature that real GDP per capita and nominal GDP have in common and another one that differentiates them.

2. [1%] Choose two macroeconomic variables that cannot take negative values.

3. [1.5%] Write down three concepts whose definition makes use of some price index.

4. [2%] Explain what a contractionary open market operation is.

5. [1.5%] State some feature that deflation and disinflation have in common and another one that differentiates them.

6. [2%] Explain what a financial asset is.

7. [2%] Find a variable that, in general, goes up when the nominal interest rate increases. Explain why the correlation occurs.

8. [2%] Find a variable that, in general, goes up when real GDP increases. Explain why the correlation occurs.

9. [2%] Find a variable that, in general, goes up when the inflation rate increases. Explain why the correlation occurs.

10. [2%] Identify three eurozone members whose country name does not contain the letter "a".

11. [1.5%] Name the variable involved in the money multiplier process.

12. [1.5%] Name the variables involved in the expenditure multiplier process.

13. [2.5%] According to Taylor's rule, what happens with the real interest rate if the inflation rate is higher than the inflation rate that the central bank aims to achieve? Explain your answer.

14. [8%] On April 4, 2014, a new investment law was enacted in Bolivia: the *Ley de Promoción de Inversiones*. The goal of this law is to set the legal and institutional framework to promote investment in Bolivia and attract foreign capital in order to foster economic growth, stimulate the social and economic development of the country, and create jobs. Analyze in the aggregate supply and aggregate demand model the effect on the macroeconomic equilibrium of the success in the application of the law and explain your graphical analysis.

(ii) [8%] Answer the same question if investors believe that the law will be ineffective because the government is not going to respect the legal framework set by the law. What limitation of the effectiveness of economic policy could justify the investors' belief?

15. [2%] Find the real exchange rate if the nominal exchange rate coincides with the purchasing power parity exchange rate, which is equal to 2 \$/€, and the eurozone price level is $P = 100$.

16. [2%] Using the version of the quantity equation expressed in rates of change, calculate the inflation rate if the velocity of circulation of money remains constant, real GDP increases by 2%, and the money stock is reduced by 3%.

17. [2%] Compute the approximate value of the real GDP growth rate if nominal GDP falls a 2% and the GDP deflator inflation rate drops a 2%.

18. [4%] With $M1 = 1000$ and $M0 = 500$, find the reserve ratio if the reserve ratio equals the liquidity ratio.

19. [3%] With the help of the fundamental macroeconomic identities, find net exports if the government budget (spending minus revenue) is equal to net exports, savings are three times investment, and investment is 10.

20. The lion share of bank deposits in Bolivia (more than 80%) is held in US dollars and not in the domestic currency, the boliviano. To change this situation, the government has taxed dollarized bank accounts (boliviano accounts are exempt from the tax). (i) [8%] What is the likely impact of the tax on the exchange rate dollar/boliviano? Justify your answer using the currency market model. [Hint: ask yourself if it is justified to withdraw dollars from the dollarized accounts, purchase bolivianos with the dollars, and deposit the bolivianos at Bolivian banks.] (ii) [8%] What is the likely impact of the tax on the domestic interest rate? Justify your answer using the liquidity market model. [Remember the money multiplier process and what banks do with new deposits.]

21. [2%] Assuming the validity of the equation linking the price of T-bills and the interest rate of the economy, calculate the economy's discount factor if the price of T-bills, when issued, is 500 and their face value is 1000.