Introduction to Macroeconomics · Final exam · 1 June 2018

DNI Number	Surnames Name	
	WRITE YOUR ANSWERS TO QUESTIONS 1 TO 25 IN THE TABLE BELOW Questions 1 to 25 [25%]: correct answer, +1%; incorrect answer, -1%; no answer, -0.5%.	

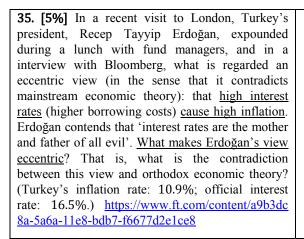
Write 'T' if you consider the sentence true and write 'F' if you consider the sentence false																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

- **1.** If real GDP increases and the GDP deflator decreases, then nominal GDP necessarily rises.
- **2.** The real interest rate is the difference between the CPI inflation rate and the GDP deflator inflation rate.
- **3.** A continuous and sustained decrease in the exchange rate is called disinflation and, sometimes, deflation.
- **4.** A rise in the government surplus is not necessarily accompanied by a fall in net exports.
- **5.** The Fisher equation does not establish a connection between the real interest rate, the inflation rate and the unemployment rate
- **6.** The quantity equation states that the amount of money in an economy is the money multiplier multiplied by the monetary base
- **7.** Every financial asset is a form of money created by the central bank
- **8.** The euro does not depreciate against the dollar when the exchange rate goes from $155 \notin /\$$ to 1.55 \$/\$.
- **9.** In the liquidity market model an expansionary open market operation (since it consists of a purchase of financial assets) is represented by a left-ward shift of the demand function.
- **10.** In the aggregate supply and demand model, a supply-side policy and a contractionary fiscal policy have in common that both tend to lower the inflation rate.
- 11. The euro is overvalued with respect to its purchasing power parity value against the dollar if the exchange rate is 155 \$/\$ and the parity exchange rate is 155 \$/\$.
- **12.** It is called revaluation the intervention by the central bank in the currency market consisting of buying the domestic currency and selling the foreign currency.
- **13.** Okun's law and the Phillips curve have in common that both are macroeconomic relationship that make no reference to the inflation rate.

- **14.** Supply-side policies are a kind of macroeconomic policy that can only be executed by central banks.
- **15.** A rise in the real exchange rate lowers net export and, therefore, reduces aggregate demand.
- **16.** The amount of euros that Americans demand would tend to increase if the European inflation rate diminishes.
- **17.** According to the Fisher effect, a contractionary monetary policy crowds out private consumption and private investment.
- **18.** It is not typical of the contractionary phase of the business cycle a reduction in the unemployment rate.
- **19.** In the shortest run, an expansionary fiscal policy tends to rise the government deficit.
- **20.** The most immediate effect of a contractionary open market operation is to shift to the left the supply of euros function in the currency market, since in this type of operation the central bank sells euros in exchange for dollars.
- **21.** The money creation process is a series of events in which deposits are created, which in turn are used to make loans, which eventually lead to the creation of more deposits.
- **22.** According to Goodhart's law, the sum of **M1** and the dollar purchasing power is equal to the real interest rate real appreciation minus the aggregate supply function; on the other hand, if there is stagflation, the law states that a fixed exchange rate minus a devaluation of the real exchange rate is necessarily larger than an increase in nominal GDP minus a decrease in the CPI.
- **23.** In the liquidity market model, if households sell financial assets massively, a rise is the most immediate likely effect on the interest rate.
- **24.** The currency market model and the aggregate supply and demand model have in common that both models can be used to ascertain effects of a reduction in exports; specifically, the first model the effect on the exchange rate and the second one, the effect on the macroeconomic equilibrium.
- **25.** The real interest rate constitutes the best measure of the level of competitiveness of an economy.

interest rate is not
interest rate is not
always equal to the
nominal interest rate?

	oox on the left of each monetary polare, at the same time, fiscal and mo			
Real GDP M2 Nominal GDP Deposits CPI Unemployment rate	☐ PPP exchange rate ☐ GDP deflator ☐ Open market operation ☐ Government expenditure ☐ Legal (or minimum) reserves ☐ Return of a financial asset	☐ Bank loans ☐ Aggregate supply ☐ Phillips curve ☐ Transfers ☐ Demand for dollars ☐ Deflation	☐ Money multiplier ☐ Discount factor ☐ Fisher equation ☐ Tax rate ☐ Net exports ☐ Okun's law	Liquidity ratio Real exchange rate Estagflation Foreign GDP Public investment Private investment
28. [8%] Reserves are 155, the liquidity ratio is 1/2, M1 is 930 and nominal GDP is 1860. If possible, find the money stock (the amount of money), the monetary base, the reserve ratio, cash in the hands of the public, deposits, the money multiplier and the velocity of circulation of money. If some value cannot be found, explain why.				
29. [4%] The purchasing parity exchange rate is €/\$. (i) Calculate the exchange rate if the rechange rate nominal is \$/€ (if it cannot be calculated as a substitution of the units. (iii) Explain meaning of the result.	1/155 the real common c			
30. [4%] Calculate the interest rate if the real in is 155%, current CPI is the CPI from the previous 3100. If it cannot be explain why and information needed to calculate the interest of th	nterest rate 1550 and as period is calculated, add the			
31. [1.5%] Explain your answer to question 8.				
32. [1.5%] Explain your answer to question 14.				
33. [1.5%] Explain your answer to question 15.				
34. [1.5%] Explain your answer to question 16.				



- **36.** [12%] Read first question 35. Erdoğan is the favourite to win the presidential and parliamentary polls to be held on the next 24th of June. In the Bloomberg interview Erdoğan declared that he will assume more responsibility for conducting monetary policy in case of winning the elections; that would compromise central bank independence. Immediately after the publication of these declarations the Turkish lira lost almost a one percent value with respect to the dollar (so far in 2018 the lira has dropped 14% against the dollar).
- (i) Using a graphical representation of the currency market model, where liras exchange for dollars, explain how and why Erdoğan's claims, supporting an interest rate cut in the presence of a high and rising inflation rate, could make the liradepreciate versus the dollar.
- (ii) On the last Saturday 26, Erdoğan made a call on Turkish citizens to <u>convert their dollars</u> and euros to <u>liras</u>: 'Together we will foil this plot,' he said. <u>Explain if this convertion would make the lira appreciate of depreciate against the dollar. <u>https://www.ft.com/content/12b806c0-6268-11e8-a39d-4df188287fff.</u> [to foil = to make something come to nothing, to thwart]</u>

37. [8%] Read questions 35 and 36 first. Turkey has been the fastest-growing economy in 2017: 7.4% GDP growth. The belief is held that a booming economy will improve the changes of Erdoğan and his party (Justice and Development party, AKP) to win the elections.

With the help of ideas and/or models developed in the course, explain why GDP growth may make more likely that a ruling party wins an election.

