ECON 3010 Intermediate Macroeconomics Exam #2

NAME:

Multiple Choice Answers. (75 points; 3 pts each)

#1.	#11.	#21.	
#2.	#12.	#22.	
#3.	#13.	#23.	
#4.	#14.	#24.	
#5.	#15.	#25.	
#6.	#16.		
#7.	#17.		
#8.	#18.		
#9.	#19.		
#10.	#20.		

Multiple Choice Questions. (75 points; 3 pts each)

1. Economists	s use the term <i>money</i> to r	efer to:	
A)	income.	C)	assets used for transactions.
B)	profits.	D)	earnings from labor.
2. Money that	has no value other than	as money is called	money.
A)	fiat	C)	commodity
B)	intrinsic	D)	government

3. The quantity of money in the United States is essentially controlled by the:

- A) President of the United States. C) Federal Reserve.
- B) Department of the Treasury. D) system of commercial banks.

4. If there is no currency and the proceeds of all loans are deposited somewhere in the banking system and if *rr* denotes the reserve–deposit ratio, then the total money supply is:

- A) 1/rr. C) reserves times rr.
- B) reserves divided by rr. D) reserves divided by (1 - rr).

5. If currency held by the public equals \$100 billion, reserves held by banks equal \$50 billion, and bank deposits equal \$500 billion, then the monetary base equals:

A)	\$50 billion.	C)	\$150 billion.
B)	\$100 billion.	D)	\$600 billion.

6. If there are 100 transactions in a year and the average value of each transaction is \$10, then if there is \$200 of money in the economy, transactions velocity is ______ times per year.

A)	0.2	C)	5
B)	2	D)	10

7. If velocity is constant and, in addition, the factors of production and the production function determine real GDP, then:

- the price level is proportional to the money supply. A)
- real GDP is proportional to the money supply. B)
- the price level is fixed. C)
- nominal GDP is fixed. D)

8. The real interest rate is equal to the:

- amount of interest that a lender actually receives when making a loan. A)
- B) nominal interest rate plus the inflation rate.
- nominal interest rate minus the inflation rate. C)
- nominal interest rate. D)

- 9. One possible benefit of moderate inflation is:
 - A) a reduction in boredom attributable to the changing prices.
 - B) the elimination of menu costs.
 - C) better functioning labor markets.
 - D) increased certainty about the future.

10. If inflation is 6 percent and a worker receives a 4 percent nominal wage increase, then the worker's real wage:

A) increased 4 percent.	C) decreased 2 percent
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B) increased 2 percent. D) decreased 6 percent.

11. If domest	tic spending exceeds output, we _	the	difference-net exports are	
A)	import; negative	C)	import; positive	
B)	export; positive	D)	export; negative	

12. In a small open economy, if exports equal \$20 billion, imports equal \$30 billion, and domestic national saving equals \$25 billion, then net capital outflow equals:

- A) -\$25 billion. C) \$10 billion.
- B)
 -\$10 billion.
 D)
 \$25 billion.

13. Holding other factors constant, legislation to cut taxes in an open economy will:

- A) increase national saving and lead to a trade surplus.
- B) increase national saving and lead to a trade deficit.
- C) reduce national saving and lead to a trade surplus.
- D) reduce national saving and lead to a trade deficit.

14. Protectionist policies in a small open economy do not alter the trade balance because the:

- A) quantity of imports and exports is fixed.
- B) interest rate adjusts to offset any reductions in imports.
- C) exchange rate appreciates to offset the increase in net exports.
- D) level of net capital outflow is fixed by the world interest rate.



15. (Exhibit Above: Policies Influence Real Exchange Rate) Which of the panels illustrates the impact on the real exchange rate of an increase in investment demand?

A)	(A)	C)	(C)
B)	(B)	D)	(D)

16. In a steady state:

- A) no hiring or firings are occurring.
- B) the number of people finding jobs equals the number of people losing jobs.
- C) the number of people finding jobs exceeds the number of people losing jobs.
- D) the number of people losing jobs exceeds the number of people finding jobs.

17. If the steady-state rate of unemployment equals 0.125 and the fraction of unemployed workers who find jobs each month (the rate of job findings) is 0.56, then the fraction of employed workers who lose their jobs each month (the rate of job separations) must be:

Å)	0.08.	C)	0.22.
B)	0.125.	D)	0.435.

18. Which of the following is an example of frictional unemployment?

- A) Dave searches for a new job after voluntarily moving to San Diego.
- B) Elaine is willing to work for less than the minimum wage, but employers cannot hire her.
- C) Bill is qualified and would like to be an airline pilot, but airlines do not find it profitable to hire him at the wage established by the airline pilot's union.
- D) Joan is willing to work at the going wage, but there are no jobs available.

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20. If the rate of separation is 0.02 and the rate of job finding is 0.08 but the current unemployment rate is 0.10, then the current unemployment rate is _____ the equilibrium rate, and in the next period it will move _____ the equilibrium rate.

- A) above; toward C) below; toward
- B) above; away from D) below; away from

21. A 5 percent reduction in the money supply will, according to most economists, reduce prices 5 percent:

- A) in both the short and long runs.
- B) in neither the short nor long run.
- C) in the short run but lead to unemployment in the long run.
- D) in the long run but lead to unemployment in the short run.

22. If an aggregate demand curve is drawn with real GDP (Y) along the horizontal axis and the price level (P) along the vertical axis, using the quantity theory of money as a theory of aggregate demand, this curve slopes _____ to the right and gets _____ as it moves farther to the right.

- A) downward; steeper C) upward; steeper
- B) downward; flatter D) upward; flatter



23. (Exhibit Above: Shift in Aggregate Demand) Assume that the economy is initially at point A with aggregate demand given by AD_2 . A shift in the aggregate demand curve to AD_0 could be the result of either a(n) _____ in the money supply or a(n) _____ in velocity.



B) increase; decrease D) decrease; decrease



24. (Exhibit Above: Supply Shock) Assume that the economy is at point B. With no further shocks or policy moves, the economy in the long run will be at point:

A)	А.	C)	C.
B)	В.	D)	D.

25. If the Fed accommodates an adverse supply shock, output falls _____ and prices rise _____.

- A) less; more C) more; less
- B) less; less D) more; more

Short Answer Question. (25 points)

Consider the following Neoclassical model of the economy, where the domestic interest rate r and the world interest rate r_* are in percentage terms. Show all your work.

Supply, Money, and Prices	Demand
$Y = F(K, L) = 10\sqrt{KL}$	$C = 75 + \left(\frac{1}{2}\right)(Y - T)$
K = 100; L = 25	I = 150 - 4r
$r_{*} = 5\%$	G = 50, T = 50
$P = 100; P_* = 110; M = 1000$	$NX = 50 - 2\epsilon$

- (a) (10 pts) Calculate the trade balance and net capital outflow for the small open economy. Show the trade balance on a saving-investment diagram with r measured on the vertical axis. What are the equilibrium real exchange rate (ϵ_*) and equilibrium nominal exchange rate (e_*)? Provide an interpretation of both ϵ_* and e_* .
- (b) (5 pts) Consider the following all-too-realistic scenario: a global pandemic reduces the labor force from L = 25 to L = 16. What does this do to the equilibrium real exchange rate (ϵ_*) and the trade balance in the small, open economy? Show your results in a diagram with ϵ on the vertical axis and (*NX* and/or S I) on the horizontal axis.
- (c) (5 pts) Assuming the velocity of money is constant, what money supply should the central bank target to achieve a 0% inflation rate (i.e., stable price level) given the pandemic? In words, how would the central bank achieve the new monetary target?
- (d) (5 pts) Congress is hoping to get the economy back to its pre-pandemic level of GDP. For the model above, what level of government spending *G* will achieve that? Is there any other policy that would achieve this goal? Explain.