

Economics 102 Additional Practice Questions Summer 2014

1. Holding everything else constant, in the simple Keynesian Model presented in class, when aggregate expenditure is greater than production, this reduces the level of inventories and in the short-run results in an increase in the aggregate price level. In simple mould constant

a. True

Key resident prices held constant

(b.) False

2. Which of the following statements best describes the differences between the Classical and Keynesian models a. When the economy is in the midst of an economic recession, the Keynesian economist typically will te governmental intervention while the Classical economist will advente action presented in class?

advocate governmental intervention while the Classical economist will advocate patience.

b. According to the Classical Model, economic fluctuations are due to a disequilibrium in the labor market; in the simple Keynesian Model, when aggregate expenditure is greater than actual production, prices rise to eliminate this disequilibrium.

3. Deliberate actions by policy makers that cause fiscal policy to be expansionary when the economy contracts are called automatic stabilizers.

True (b.) False Deliberate actions are not automatic stabilizers, they are discretionary fiscal policy

4. Consider an economy using the Keynesian model as presented in class. The value of the autonomous expenditure multiplier [1/(1-b)] in this economy is 2. If government spending increases by \$50 while taxes simultaneously increase by \$50, what will happen to the equilibrium level of GDP?

a. It will not effectively change the level of output since the increase in government spending which stimulates spending is exactly offset by the increase in taxes which contracts spending. X

b. It will cause the equilibrium level of GDP to increase by less than \$50 because of the multiplier effect.

c. It will cause the equilibrium level of GDP to increase by more than \$50 because of the multiplier effect. \*

dIt will cause the equilibrium level of GDP to increase by exactly \$50 due to the multiplier effect.

Use the Loanable Funds Model to answer the next two questions:

$$\begin{split} Y &= C + S_P + T - TR \\ S_G &= T - TR - G \\ NS &= S_P + S_G \\ NS &= Y - C - G \\ KI &= M - X \\ Y &= C + I + G + (X - M) \\ In equilibrium, leakages = injections \end{split}$$

$$\frac{1}{1-b} = 2 \implies 1 = 2 - 2b$$

$$\frac{1}{b} = \frac{1}{2} = \frac{1}{$$

Furthermore, suppose the government runs a balanced budget (that is, G - T + TR = 0) and collects \$300 in tax revenue. Firms spend \$55 on new capital and capital inflow equals \$15. Income equals \$450 and \$220 of that income is spent on consumption. Furthermore, leakages equal injections in this economy.

5. What is the level of private saving in this economy?

a. \$55 since private saving must equal investment in order for the loanable funds market to be in equilibrium.

b. \$70 since businesses are spending \$55 of their own money plus \$15 provided via the foreign sector (i.e., T=300 I = 55 KI = 15 = M - X I = 55 I = 55

c.\$40 since businesses are demanding \$55 worth of loanable funds and the foreign sector is supplying only \$15 worth of loanable funds. d. \$25 since the total demand for loanable funds is \$40 and there are \$15 of loanable funds being supplied through the capital inflow. 6. What is the level of government transfers in this economy? a. \$0 \$90 ь. (c.) \$110 \$125 7. According to the Loanable Funds Model, which of the following will most likely contribute to long-run growth? An increase in payments to the unemployed. - a generor safety net may slow growth since people Increased restrictions on immigration! - (abn will grow at slower rate Improved birth control methods. \* - lower population: slower growth of labor force A reduction in the capital gains tax: d. A reduction in the capital gains tax. a greater incentives to expand bunners => any age in 8. Answer this question according to the Classical Model. The US runs a trade deficit with China. Holding everything else constant, if the US narrows this gap by increasing exports, what will happen to the level of SLE : Sp + KI' investment in the United States? Investment in the U.S. will increase relative to its initial level. b.) Investment in the U.S. will decrease relative to its initial level. Investment in the U.S. could either increase or decrease relative to its initial level. There will be no effect on investment in the U.S. 9. The full employment level of output in an economy refers to the level of output produced when: a. Everyone above age 16 is working. Not everyone 16 4 older will choose to be in labor force b. Everyone above age 16 who wants a job is working. Still have frictional of structural unemplyment c. There is no unemployment due to the business cycle. I No cyclical unemployment d. There is no cyclical or structural unemployment. The full employment level of output there is frictional and structural Use the following information for the next two problems. Consider a closed economy whose price levels in 2004 and 2005 are the same. The GDPs in 2004 and 2005 are \$4,000 and \$5,000, respectively. Household consumption was \$3,000 and private saving was \$500 in 2004. In 2005, the government deficit increased by \$500. Private saving was \$1,500 in 2005. Analyze this economy using the -6004 DEF Classical model given below: Year You GOP 500 V1500  $Y = C + S_P + T - TR$ 1500  $S_G = T - TR - G$ 5000 2005 Y = C + I + GO Organize data (see table).  $NS = S_P + S_G$ NS = Y - C - G@ Y=C+Sp+CT-TR) in 2004 4000 = 3000 + 500 + CT-TR) => (T-TR) =500 (2) In equilibrium, leakages = injections SG = (T-TR) - G 10. The increase in private investment in 2005 is: 56 = 500 - 6 (a) \$500 NS = Sp+ SG NS = 1000-G => 0 = 6 = 1000 [limits for G] \$1,000 c. \$1,500 If G=0 => NS = 1000 => I = 1000 } Range for I'm 2004 d. \$2,000 # If G= 1000 => SG'in 2005 =- 1000 6 (5) Gout Deficit in 2005 = - SG m 2004 + 500 [recall Gin]
Gout Deficit in 2005 = G - 500 + 500 = G [0=G=100] if G=1000 => NS=0 => [=0 => NS'= 1500 + (-1000) = 500 => If G=0 => SG in 2005 = 0 => NS' = 1500+0 => I' = 1500 DT = I'- I when 6 = 1000 in

DI=I'-I= 1500 - 1000 = 500

2004 and 2005 =7 1 [= [- I

500-0=500 ANSWER: A

Or, here is a simpler proof Y=C+Sp+ (T-TR) Between 2004 and 2005 AY = 1000 DSD = 1000 gort theficit 7 by 500 => SG V by 500 In the loanable funds mict: In 2004 I, = Sp, + SG, In 2005 I2 = Spz + SG, AI=I2-I,= ASp+ ASG DI = DSp+ D[(T-172)-G7  $\Delta I = 1000 + (-500)$ 

AI = 500

			·		
				·	

		2004
		Leahages in 2004:
	11. Calculate the leakages in 2004.	(T-Th) + Sp = 18 tal Clared economy)
	a. \$500 b. \$1,000	(T-Th) + Sp = Total Leahages (remember this is a closed economy) 500 + 500 = 1000
	<ul><li>c. \$3,500</li><li>d. There is not enough information to answer this ques</li></ul>	stion.
	12. Consider an economy using a Keynesian model. The economy	onomy is initially in equilibrium at Y1. Holding
	everything else constant, if there is an increase in the level of	f autonomous consumption this will AE AE2Cla
	<ul><li>a. Cause the equilibrium level of real GDP to increase</li><li>b. Cause inventories to decrease if the economy contin</li></ul>	nues to produce at its initial level of output.
	c. Cause output to be expanded via the multiplier proceed. (a), (b) and (c) are all true statements.	cess. V Y <sub>1</sub> Y <sub>2</sub> Y
	Use the following information about a closed economy to an	
	C=100+0.5(Y-T) $Ye=C+E$	iswer the next two questions. $W/AE_2$ , $At Y_1$ you have $AE > Y_1 \Rightarrow inventories$ $AE > Y_1 \Rightarrow inventories$ $S(Ye-T)+I+G$ will $U \Rightarrow produces$ $S(.2Y)+10U+70$ certains $S(xall + b)$ $S(.2Y)+10U+70$
	I=100 $G=70$ $Y=100+.$	5(Ye-T)+ I +G will -1/10 to 1 5 malto
	T=0.2Y $.5$	1 4 to was 6 12 =>
	13. What is the value of disposable income for this economy	1? 450 this is multipleen
	a. $0.5(Y-T)$ $Y_e = \frac{27}{.6}$	pround a
	b. $100 + 0.4(Y-T)$ $100 + 0.4(Y-T)$	0
22	c. 0.8(Y-T)	C V = 450 what is Nisposalle Income.
	d. 0.8Y	The because y-T
	14. What is the equilibrium level of income for this econom	Ye = 450, what is Nisposalle Income?  [Disposable Income = Y - T  Disposable Income = Y 2Y  Disposable Income = . 8Y
	a. \$190	his posable ancome = . 84
	b. \$270	1.60/
	<b>c.</b> \$450	
	d. \$900	e e e e e e e e e e e e e e e e e e e
	15. BiCi Credit is a bank operating in the country of Mone	yland. The reserves that BiCi credit holds in an account
	with Moneyland Central Bank are considered:  a. Liabilities in the balance sheet of BiCi Credit. X =>	The say and and
	<ul> <li>a. Liabilities in the balance sheet of BiCi Credit.</li> <li>b. Assets in the balance sheet of Moneyland Central</li> </ul>	Bankx = not 4mth
	(c) Liabilities in the balance sheet of Moneyland Cent	irai Bank.
	d. They are not accounted for in the balance sheets o	f either BiCi Credit or Moneyland Central Bank.
	16. Suppose the demand and supply of money are given by	y the following equations:
nO.	n 1 14D 10 000 2 000m	
100	Supply: $M^S = 5,000$	c
م		ney demand, and M <sup>o</sup> is money supply. Furthermore, the above equation). Which of the following is <b>TRUE</b> ?
	a. People will want to hold money since banks are p	paying relatively high interest rates.
	b. People will want to buy bonds and thus, the interest	est rate will rise.*
	People will want to buy bonds and this increased	demand for bonds will lead to lower interest rates.  I demand for bonds will lead to higher interest rates.
t		
4	ifr=4, M = 10,000	1 - 2000 (4)
1	Mo = 2000	1, 1, 1, 3, 4
-	m° < M	5 when r=4 => people an + war
20	Too Sovo QN Money ho	Id money, they want to have knows 7 => il
	de	S when r=4 => people do it want to old money, they want to hold bonds => so mand for bunds shifts out => Poonds 7 => i &

you't worry too much about the price of bunds 17. Which of the following is most likely to be a consequence of an open market purchase of bonds by the Federal Reserve? The money supply will increase, the price of bonds will fall, the interest rate will fall, and output will The money supply will increase, the price of bonds will increase, the interest rate will fall, and output will Gas it, Ponds T increase. > wil, IT=> YT x The money supply will decrease, the price of bonds will fall, the interest rate will increase, and output will The money supply will decrease, the price of bonds will increase, the interest rate will rise, and output will 18. Suppose the Fed increases the level of reserves in an economy by \$500 through an open market purchase. In which of the following situations will this \$500 increase in reserves have the largest short run effect on the money a. People hold all of the new reserves as currency. No multiplier effect People hold the new reserves as equal amounts of currency and demand deposits and banks maintain a 5 no multiplie effect People hold the new reserves as demand deposits, and banks maintain a reserve ratio of 50 percent.

People hold the new reserves as demand deposits, and banks maintain a reserve ratio of 10 percent.

People hold the new reserves as demand deposits, and banks maintain a reserve ratio of 10 percent.

People hold the new reserves as demand deposits, and banks maintain a reserve ratio of 10 percent.

People hold the new reserves as demand deposits, and banks maintain a reserve ratio of 10 percent.

People hold the new reserves as demand deposits, and banks maintain a reserve ratio of 10 percent. reserve ratio of 10 percent. 19. According to the aggregate supply and demand model, holding everything else constant, a decrease in the aggregate price level leads to which of the following sequences? The money demand curve will shift to the right, the interest rate will increase, the aggregate expenditure line will shift downward, and there will be movement upward along the aggregate demand curve. The money demand curve will shift to the left, the interest rate will fall, the aggregate expenditure line will shift upward, and there will be movement downward along the aggregate demand curve. The money demand curve will shift to the left, the interest rate will fall, the aggregate expenditure line will shift downward, and there will be movement upward along the aggregate demand curve. The money demand curve will shift to the right, the interest rate will fall, the aggregate expenditure line will shift upward, and there will be movement downward along the aggregate demand curve. 10,000 = 8000-10,000 r 10,000 r = 1000 Answer the next two questions using the following information. Money Supply:  $M^S = 7,000$ Money Demand:  $M^D = 8,000-10,000r$  (e.g. 5% would mean that r = 0.05) (1) Ghd I when r = .1I = 5000 - 6000 (.1) = 5000-600 = 4400 (3) Find where AD = AS => to get Ye & Pe: Ye=10,000+.8(y-T)-200P+ 4400+2000+1200 Ye= 17,600+.8y-.8(2000)-200P 2/e=17,600-1600-200P C = 10,000 + 0.8(Y - T) - 200PI = 5,000 - 6,000rG = 2,000T = 2,000X - M = 1,200Aggregate Demand (AD): Y = C + I + G + (X - M) .2Ye = 16,600 - 200P[AO: Ye = 50,000 - 1000P] 80,000 - 1000R = 7000R 4000 = 80000 = 8000R 4000 = 8000RAggregate Supply (AS): Y = 7,000P20. What is the equilibrium level of output (Y) and the equilibrium level of investment (I)? a.) 70,000; 4,400. using As: Ye = 7000(Pe) = 70,000 using AD: Ye = 80,000 - 1000(Pe) = 70,000 120,000; 4,400 80,000; 6,000. 110,000; 6,000.

21. Think about the aggregate demand and aggregate supply model when answering this question. Suppose the economy is in equilibrium but operating below full-employment output. What will happen in the long run in this economy?

7 nominal wages &

Nothing will happen. There is no need for adjustment in this market.

b.) Adjustment in the labor market will cause an outward shift in the short-run aggregate supply curve, bringing us back to equilibrium with the long-run aggregate supply curve at the full employment output.

Adjustment in the money market will cause an inward shift in the short-run aggregate supply curve, bringing us to equilibrium with the long-run aggregate supply curve at the full employment output.

d. Adjustment in the output market will cause an outward shift in the short-run aggregate supply curve to bring us back to equilibrium with the long-run aggregate supply curve at the full employment output.

Ye (This is SR

Use the following Keynesian Model of a closed economy to answer the next two questions.

$$Y = C + S + T$$
  
 $AE = C + I + G$   
 $Y = AE$  in equilibrium  
 $C = a + b(Y - T)$ 

IN LR, SRAS shipts to

SRAS' as nominal wages
fall > returns ceons my
to Yfe

The aggregate consumption function of Badgerland is linear in disposable income (Y - T). Assume that the economy Y=C+T+S is in equilibrium each year.

Y-T
900
1050
1300

r	Y	T	C	I	G	S	1000 = 830+100+
4	1000	100	830	70	19 100	0 70	1000 = 850+1001
5	1200	150	@ 935		200	115	5= +0 0
6	1500	200	(3)1110	100	(5) 290		In 2005

22. The consumption in 2005 is \_\_\_\_; the consumption in 2006 is \_\_\_\_.

- a. 935, 1000.
- b. 900, 1100.
- 900; 1000.

MPC = AC =	725 830
	1050 - 900
MPC =	105 = 21 = = . 7

SRAS to SRAS

23. What is the nominal growth rate of government spending (G) between 2004 and 2006?  $C = a + b (Y - (T - TR)) \Rightarrow TR = 0$ (a. 190% Y = C + T + C(a.) 190% Y = C + I + G C = a + .7(Y - T)b. 150% A = C + I + G C = a + .7(Y - T)c. 90% A = C + I + G C = a + .7(Y - T)d. 50% A = C + I + G C = a + .7(Y - T)24. If the Federal Open Market Committee decides to expand the money supply, then it will a. raise the discount rate to member banks.

- raise the discount rate to member banks.  $\frac{1}{2}$  Buy  $\frac{1}{2}$  Buy  $\frac{1}{2}$  bills issue directions to purchase government securities, thus putting more reserves in member banks. C = 200 + .7(1300)
- issue directions to sell government securities, thus taking reserves from member banks.
- order new Federal Reserve notes delivered to member banks.

C=1110 3

5

6 Cm 20051

25. If the Federal Open Market Committee decides to expand the money supply, then it will

- raise the discount rate to member banks.
- issue directions to purchase government securities, thus putting more reserves in member banks.
- issue directions to sell government securities, thus taking reserves from member banks.
- order new Federal Reserve notes delivered to member banks.

26. The aggregate demand curve

2 produtor: Supply

- a represents the relationship between prices and quantities of all goods produced in an economy.
- b. is derived from equilibrium conditions in the labor and money markets. X
- c. gives the equilibrium level of real GDP corresponding to a given price level.
- d. plots the interest rate as a function of output. X



