# Masaryk University - Brno Department of Economics – Faculty of Economics and Administration Lipová 507/41a, Pisárky, Brno

## BPE\_MAC1 Macroeconomics 1 – Spring Semester 2011

#### Midterm Exam - 08.04.2011, 10:30-11:30

Test A

#### **Guidelines and Rules:**

Completion

- 1. The test setup has 4 pages. It is your responsibility to check that you have all the pages.
- 2. The time limit is 60 minutes.
- 3. The exam is worth 30 points.
- 4. You are NOT allowed to use any books or notes.

b. income and saving both rise.

- 5. Any violation of academic honesty will be punished to the fullest extent possible.
- 6. At most one exam-taker is allowed to be outside the room at one time.
- 7. When ready, **submit** the filled setup sheet with **your name** written on the first page.

Complete e	each statement.
1.	are expenditures by government for which they receive no goods or services
2.	The group of financial institutions through which savers can indirectly lend to borrowers are called while the ones through which savers can lend directly to borrowers are called
3.	shows the amount of money today that would be needed to produce a required future amount of money at the prevailing interest rate.
4.	Risk that affects only a single economic agent is
5.	Sectoral shifts in demand for output create and minimum-wage laws sustain
6.	The deviation of the unemployment rate from its natural rate represents
7.	When used to purchase goods and services money perform its function of
8.	The practice of a government raising revenue by printing money is known as
9.	The rate at which money circulates is measured by
10.	According to the theory of a unit of a country's currency should buy the same quantity of goods in all countries
Multiple ( Identify the	Choice e choice that best completes the statement or answers the question.
11.	If an economy's GDP rises, then it must be the case that the economy's a. income rises and saving falls.

d. income and expenditure both rise.

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12.	To compute GDP, we						
	a. add up the wages paid to	all workers.					
	b. add up the costs of producing all final goods and services.						
	c. add up the market values	of all final goods and serv	rices.				
	d. take the difference between		final goo	ds and services and	the costs of		
	producing those final goo	ds and services.					
 13.	If real GDP doubles and the G	DP deflator doubles, then	nominal (	GDP			
	a. remains constant.	c.	triples.				
	b. doubles.	d.	quadrup	oles.			
 14.	In the economy of Wrexington Wrexington's real GDP in 200		as \$20 bil	llion and the GDP de	eflator was 50. What was		
	a. \$2.5 billion	c.	\$40 bill	ion			
	b. \$10 billion	d.	\$100 bi	llion			
15.	Suppose a basket of goods and	services has been selected	d to calcu	late the CPI and 200	4 has been selected as the ba	ise	
	year. In 2002, the basket's cos						
	\$54.60. The value of the CPI is	in 2006 was					
	a. 91.6.	c.	105.0.				
	b. 95.2.	d.	109.2.				
16.	The market basket used to calc	culate the CPI in Aquilonia	a is 4 loav	es of bread, 6 gallon	s of milk, 2 shirts, and 2 pai	rs	
	of pants. In 2005, bread cost \$ per pair. In 2006, bread cost \$ per pair. Using 2005 as the ba	1.50 per loaf, milk cost \$2	2.00 per g	allon, shirts cost \$7.			
	a. 4 percent	c.	19.6 pe				
	b. 11 percent	d.	24.4 per				
17.	Which of the following is a con		•				
17.	a. Divide the number of hou	•	•				
	b. Divide the quantity of out	• • •	-				
	c. Divide the quantity of out	• •					
	d. Divide the change in the c		-		worked.		
18.	Consider two countries. Countries						
 10.	final goods. Country B has a pe	• • •			•		
	a. Country A has higher pro-	_		-	_		
	b. Country A has lower prod	• •		•			
	c. Country A has higher pro-			-			
	d. Country B has lower prod	<u> </u>		•			
19.	Assuming the market for loana	-		-			
 17.	loanable funds supplied.	ore runds is in equinorium	ı, use ille	Tonowing numbers to	o determine the quantity of		
	roundore runds supplied.						
		GDP		\$8.7 trillion			

GDP	\$8.7 trillion
Consumption Spending	\$3.5 trillion
Taxes Net of Transfers	\$2.7 trillion
Government Purchases	\$3.0 trillion

a. \$2.2 trillion
 b. \$2.5 trillion
 c. \$3.9 trillion
 d. \$5.2 trillion

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20.	Suppose the U.S. offered a tax credit for firms that built new factories in the U.S Then						
	a.	•	ntwar	d, initially creating a surplus of loanable funds			
		at the original interest rate.					
	b.		ntwar	d, initially creating a shortage of loanable funds			
		at the original interest rate.					
	c.	the supply of loanable funds would shift right the original interest rate.	vard,	initially creating a surplus of loanable funds at			
	d.	9	ward,	initially creating a shortage of loanable funds at			
 21.	Sup	ppose you put \$500 into a bank account today.	ntere	st is paid annually and the annual interest rate is 5.5 percent.			
	The	e future value of the \$500 is					
	a.	\$637.50 after 5 years and \$822.09 after 10 years	ars.				
	b.	\$637.50 after 5 years and \$775.00 after 10 years	ars.				
	c.	\$653.48 after 5 years and \$854.07 after 10 years	ars.				
	d.	\$688.36 after 5 years and \$915.56 after 10 years	ars.				
 22.	Ima	agine that someone offers you \$X today or \$1,50	0 in 5	5 years. If the interest rate is 6 percent, then you would			
	pre	fer to take the $\$X$ today if and only if					
	a.	X > 1,055.56.	c.	<i>X</i> > 1,213.33.			
	b.	X > 1,120.89.	d.	<i>X</i> > 1,338.26.			
 23.		· · · · · · · · · · · · · · · · · · ·		rical rate of return on a certain mutual fund, then in three			
	yea	rs your \$20,000 will grow to \$23,152.50. What	2.50. What rate of interest does your financial advisor expect you to earn?				
	a.	5 percent	c.	7 percent			
	b.	6 percent	d.	8 percent			

2009 Labor Data for Wrexington

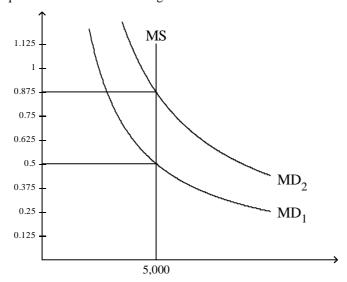
24. Table 28-2

Number of adults	20,000
Number of adults who are paid employees	8,000
Number of adults who work in their own businesses	1,600
Number of adults who are unpaid workers in a family member's business	1,000
Number of adults who were temporarily absent from their jobs because of an earthquake	400
Number of adults who were waiting to be recalled to a job from which they had been laid off	200
Number of adults who do not have a job, are available for work, and have tried to find a job within the past four weeks	1,400
Number of adults who do not have a job, are available for work, but have not tried to find a job within the past four weeks	780
Number of adults who are full-time students	3,000
Number of adults who are homemakers or retirees	3,620

	Ref	fer to Table 28-2.	How many people were unemploy	ved in Wrexington in 2009?
	a.	1,400	c.	2,000
	b.	1,600	d.	2,780
25.	Ref	fer to Table 28-2.	How many people were in Wrexin	ngton's labor force in 2009?
	a.	11,000	c.	13,380
	b.	12.600	d.	20.000

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26. **Figure 30-2**. On the graph, MS represents the money supply and MD represents money demand. The usual quantities are measured along the axes.



**Refer to Figure 30-2**. If the relevant money-demand curve is the one labeled  $MD_1$ , then the equilibrium value of money is

- a. 0.5 and the equilibrium price level is 2.
- b. 2 and the equilibrium price level is 0.5.
- c. 0.5 and the equilibrium price level cannot be determined from the graph.
- d. 2 and the equilibrium price level cannot be determined from the graph.

27. **Refer to Figure 30-2**. Suppose the relevant money-demand curve is the one labeled MD<sub>1</sub>; also suppose the velocity of money is 3. If the money market is in equilibrium, then the economy's real GDP amounts to

a. 5,000.

c. 10,000.

b. 7,500.

d. 15,000.

- 28. A rise in the budget deficit
  - a. shifts both the supply of loanable funds in the market for loanable funds and the supply of dollars in the market for foreign-currency exchange right.
  - b. shifts both the supply of loanable funds in the market for loanable fund and the supply of dollars in the market for foreign-currency exchange left.
  - c. shifts both the demand for loanable funds in the market for loanable funds and the demand for dollars in the market for foreign-currency exchange right.
  - d. shifts both the demand for loanable funds in the market for loanable funds and the demand for dollars in the market for foreign-currency exchange left.

29. If the U.S. government imposes a quota on toy imports, then net exports of U.S. toys would

- a. rise.
- b. not change.
- c. fall.
- d. rise, not change, or fall depending on what happened to the exchange rate.

30. In an open economy, national saving equals

- a. domestic investment plus net capital outflow.
- b. domestic investment minus net capital outflow.
- c. domestic investment.
- d. net capital outflow.

### Midterm Exam - 08.04.2011, 10:30-11:30 Answer Section

Test A

#### **COMPLETION**

- 1. ANS: transfer payments
  - PTS: 1
- 2. ANS: financial intermediaries; financial markets
  - PTS: 1
- 3. ANS: present value
  - PTS: 1
- 4. ANS: idiosyncratic risk
  - PTS: 1
- 5. ANS: frictional unemployment; structural unemployment
  - PTS: 1
- 6. ANS: cyclical unemployment
  - PTS: 1
- 7. ANS: medium of exchange
  - PTS: 1
- 8. ANS: inflation tax
  - PTS: 1
- 9. ANS: velocity of money
  - PTS: 1
- 10. ANS: purchasing-power parity
  - PTS: 1

#### **MULTIPLE CHOICE**

11.	ANS:	D	PTS:	1	DIF:	2	REF:	23-1
	TOP:	Income   Expe	enditure		MSC:	Interpretive		
12.	ANS:	C	PTS:	1	DIF:	2	REF:	23-2
	TOP:	GDP	MSC:	Interpretive				
13.	ANS:	D	PTS:	1	DIF:	2	REF:	23-4
	TOP:	Nominal GDF	•		MSC:	Applicative		
14.	ANS:	C	PTS:	1	DIF:	2	REF:	23-4
	TOP:	Real GDP	MSC:	Applicative				
15.	ANS:	C	PTS:	1	DIF:	2	REF:	24-1
	TOP:	CPI	MSC:	Applicative				
16.	ANS:	D	PTS:	1	DIF:	2	REF:	24-1
	TOP:	Inflation rate			MSC:	Applicative		

17.		В				1	REF:	25-2
		•		Definitional				
18.				1		2	REF:	25-2
				DP		Applicative		
19.	ANS:	A	PTS:	1	DIF:	2	REF:	26-3
	TOP:	Market for loa	anable f	unds				
20.	ANS:	В	PTS:	1	DIF:	2	REF:	26-3
	TOP:	Investment tax	x credit	Market for lo	anable	funds	MSC:	Applicative
21.	ANS:	C	PTS:	1	DIF:	2	REF:	27-1
	TOP:	Future value	MSC:	Applicative				
22.	ANS:			1	DIF:	3	REF:	27-1
	TOP:	Present value			MSC:	Applicative		
23.	ANS:	A	PTS:	1	DIF:	2	REF:	27-1
	TOP:	Future value	MSC:	Applicative				
24.	ANS:	В	PTS:	1	DIF:	2	REF:	28-1
	TOP:	Unemploymen	nt		MSC:	Applicative		
25.	ANS:	В	PTS:	1	DIF:	2	REF:	28-1
	TOP:	Labor force	MSC:	* *				
26.		A				1	REF:	30-1
	TOP:	Money marke	t   Price	level	MSC:	Applicative		
27.		В				2	REF:	30-1
	TOP:	Velocity of m	oney   F	Real GDP	MSC:	Applicative		
28.	ANS:	В	PTS:	1	DIF:	2	REF:	32-3
	TOP:	Budget deficit	ts   Mar	ket for loanable	e funds	Market for for	reign-cı	urrency exchange
	MSC:	Applicative						
29.						2	REF:	32-3
	TOP:	Import quotas	Net e	xports	MSC:	Applicative		
30.	ANS:	A	PTS:	1	DIF:	1	REF:	32-1
	TOP:	National savir	ng		MSC:	Definitional		