

BPE MAC1 Macroeconomics 1 – Spring Semester 2011

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

Test B

Guidelines and Rules:

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.
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.

Completion

Complete each statement.

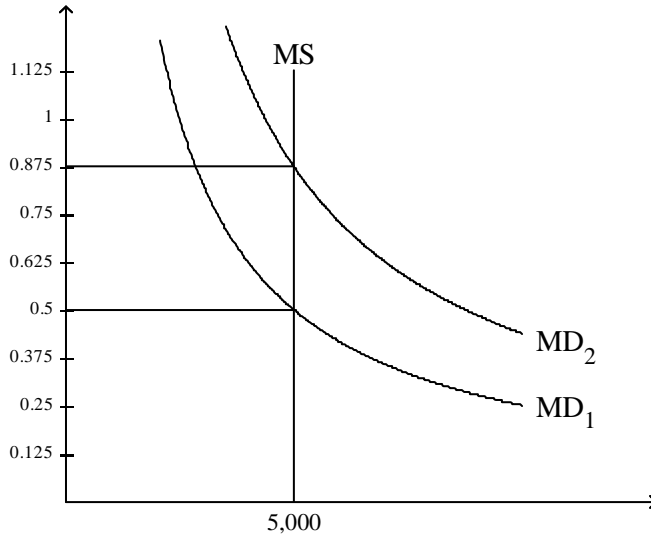
1. The deviation of the unemployment rate from its natural rate represents _____ .
2. According to the theory of _____ a unit of a country's currency should buy the same quantity of goods in all countries
3. Risk that affects only a single economic agent is _____ .
4. The group of financial institutions through which savers can indirectly lend to borrowers are called _____ while the ones through which savers can lend directly to borrowers are called _____ .
5. The practice of a government raising revenue by printing money is known as _____ .
6. Sectoral shifts in demand for output create _____ and minimum-wage laws sustain _____ .
7. _____ shows the amount of money today that would be needed to produce a required future amount of money at the prevailing interest rate.
8. _____ are expenditures by government for which they receive no goods or services
9. The rate at which money circulates is measured by _____ .
10. When used to purchase goods and services money perform its function of _____.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 11. Which of the following is a correct way to measure productivity?
- a. Divide the quantity of output by the number of hours worked.
 - b. Divide the change in the quantity of output by the change in the number of hours worked.
 - c. Divide the quantity of output by the quantity of physical capital.
 - d. Divide the number of hours worked by the quantity of output.

- _____ 12. The market basket used to calculate the CPI in Aquilonia is 4 loaves of bread, 6 gallons of milk, 2 shirts, and 2 pairs of pants. In 2005, bread cost \$1.00 per loaf, milk cost \$1.50 per gallon, shirts cost \$6.00 each, and pants cost \$10.00 per pair. In 2006, bread cost \$1.50 per loaf, milk cost \$2.00 per gallon, shirts cost \$7.00 each, and pants cost \$12.00 per pair. Using 2005 as the base year, what was Aquilonia's inflation rate in 2006?
- 19.6 percent
 - 24.4 percent
 - 4 percent
 - 11 percent
- _____ 13. **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 MD₁, then the equilibrium value of money is
- 0.5 and the equilibrium price level is 2.
 - 2 and the equilibrium price level cannot be determined from the graph.
 - 0.5 and the equilibrium price level cannot be determined from the graph.
 - 2 and the equilibrium price level is 0.5.
- _____ 14. **Refer to Figure 30-2.** Suppose the relevant money-demand curve is the one labeled MD₁; also suppose the velocity of money is 3. If the money market is in equilibrium, then the economy's real GDP amounts to
- 7,500.
 - 5,000.
 - 10,000.
 - 15,000.
- _____ 15. If the U.S. government imposes a quota on toy imports, then net exports of U.S. toys would
- rise, not change, or fall depending on what happened to the exchange rate.
 - not change.
 - fall.
 - rise.
- _____ 16. Suppose the U.S. offered a tax credit for firms that built new factories in the U.S.. Then
- the demand for loanable funds would shift rightward, initially creating a shortage of loanable funds at the original interest rate.
 - the demand for loanable funds would shift rightward, initially creating a surplus of loanable funds at the original interest rate.
 - the supply of loanable funds would shift rightward, initially creating a surplus of loanable funds at the original interest rate.
 - the supply of loanable funds would shift rightward, initially creating a shortage of loanable funds at the original interest rate.

- _____ 17. Imagine that someone offers you \$X today or \$1,500 in 5 years. If the interest rate is 6 percent, then you would prefer to take the \$X today if and only if
- $X > 1,338.26$.
 - $X > 1,055.56$.
 - $X > 1,120.89$.
 - $X > 1,213.33$.
- _____ 18. If an economy's GDP rises, then it must be the case that the economy's
- income rises and expenditure falls.
 - income and saving both rise.
 - income and expenditure both rise.
 - income rises and saving falls.
- _____ 19. Suppose you put \$500 into a bank account today. Interest is paid annually and the annual interest rate is 5.5 percent. The future value of the \$500 is
- \$653.48 after 5 years and \$854.07 after 10 years.
 - \$688.36 after 5 years and \$915.56 after 10 years.
 - \$637.50 after 5 years and \$775.00 after 10 years.
 - \$637.50 after 5 years and \$822.09 after 10 years.
- _____ 20. If real GDP doubles and the GDP deflator doubles, then nominal GDP
- triples.
 - remains constant.
 - quadruples.
 - doubles.
- _____ 21. Consider two countries. Country A has a population of 1,000, of whom 800 work 8 hours a day to make 128,000 final goods. Country B has a population of 2,000, of whom 1,800 work 6 hours a day to make 270,000 final goods.
- Country A has higher productivity and higher real GDP per person than country B.
 - Country A has lower productivity and lower real GDP per person than country B.
 - Country B has lower productivity, but higher real GDP per person than country B.
 - Country A has higher productivity, but lower real GDP per person than country B.
- _____ 22. To compute GDP, we
- add up the wages paid to all workers.
 - take the difference between the market values of all final goods and services and the costs of producing those final goods and services.
 - add up the costs of producing all final goods and services.
 - add up the market values of all final goods and services.
- _____ 23. A rise in the budget deficit
- 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.
 - 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.
 - 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.
 - 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.
- _____ 24. Assuming the market for loanable funds is in equilibrium, use the following numbers to determine the quantity of loanable funds supplied.

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

- \$2.5 trillion
 - \$5.2 trillion
 - \$2.2 trillion
 - \$3.9 trillion
- _____ 25. In the economy of Wrexington in 2008, nominal GDP was \$20 billion and the GDP deflator was 50. What was Wrexington's real GDP in 2008?
- \$2.5 billion
 - \$10 billion
 - \$40 billion
 - \$100 billion

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Answer Section

Test B

COMPLETION

1. ANS: cyclical unemployment

PTS: 1

2. ANS: purchasing-power parity

PTS: 1

3. ANS: idiosyncratic risk

PTS: 1

4. ANS: financial intermediaries; financial markets

PTS: 1

5. ANS: inflation tax

PTS: 1

6. ANS: frictional unemployment; structural unemployment

PTS: 1

7. ANS: present value

PTS: 1

8. ANS: transfer payments

PTS: 1

9. ANS: velocity of money

PTS: 1

10. ANS: medium of exchange

PTS: 1

MULTIPLE CHOICE

- | | | | |
|--|-------------------|--------|-----------|
| 11. ANS: A | PTS: 1 | DIF: 1 | REF: 25-2 |
| TOP: Productivity | MSC: Definitional | | |
| 12. ANS: B | PTS: 1 | DIF: 2 | REF: 24-1 |
| TOP: Inflation rate | MSC: Applicative | | |
| 13. ANS: A | PTS: 1 | DIF: 1 | REF: 30-1 |
| TOP: Money market Price level | MSC: Applicative | | |
| 14. ANS: A | PTS: 1 | DIF: 2 | REF: 30-1 |
| TOP: Velocity of money Real GDP | MSC: Applicative | | |
| 15. ANS: D | PTS: 1 | DIF: 2 | REF: 32-3 |
| TOP: Import quotas Net exports | MSC: Applicative | | |
| 16. ANS: A | PTS: 1 | DIF: 2 | REF: 26-3 |
| TOP: Investment tax credit Market for loanable funds | MSC: Applicative | | |

17. ANS: C PTS: 1 DIF: 3 REF: 27-1
TOP: Present value MSC: Applicative
18. ANS: C PTS: 1 DIF: 2 REF: 23-1
TOP: Income | Expenditure MSC: Interpretive
19. ANS: A PTS: 1 DIF: 2 REF: 27-1
TOP: Future value MSC: Applicative
20. ANS: C PTS: 1 DIF: 2 REF: 23-4
TOP: Nominal GDP MSC: Applicative
21. ANS: B PTS: 1 DIF: 2 REF: 25-2
TOP: Productivity | Real GDP MSC: Applicative
22. ANS: D PTS: 1 DIF: 2 REF: 23-2
TOP: GDP MSC: Interpretive
23. ANS: D PTS: 1 DIF: 2 REF: 32-3
TOP: Budget deficits | Market for loanable funds | Market for foreign-currency exchange
MSC: Applicative
24. ANS: C PTS: 1 DIF: 2 REF: 26-3
TOP: Market for loanable funds MSC: Applicative
25. ANS: C PTS: 1 DIF: 2 REF: 23-4
TOP: Real GDP MSC: Applicative
26. ANS: A PTS: 1 DIF: 2 REF: 24-1
TOP: CPI MSC: Applicative
27. ANS: B PTS: 1 DIF: 1 REF: 32-1
TOP: National saving MSC: Definitional
28. ANS: B PTS: 1 DIF: 2 REF: 28-1
TOP: Unemployment MSC: Applicative
29. ANS: C PTS: 1 DIF: 2 REF: 28-1
TOP: Labor force MSC: Applicative
30. ANS: D PTS: 1 DIF: 2 REF: 27-1
TOP: Future value MSC: Applicative