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# **CHAPTER 1: Introduction to Macroeconomics**

| ١ | <b>TIII</b> | TIPI | .E. ( | CH | $\Omega$ I | CE. |
|---|-------------|------|-------|----|------------|-----|
|   |             |      |       |    |            |     |

| 1. | central topic of study in macroeconomics is, while a central topic of study in icroeconomics is  the cosmos; particle physics the overall performance of an economy; an individual market an individual market; the overall performance of an economy the overall performance of a single economy; the individual firm consumer behavior; firm behavior   |  |
|----|---|--|
|    | NS: B DIF: Easy REF: 1.1 TOP: I. ISC: Remembering   |  |
| 2. | he three main variables we discuss in the short run are: economic fluctuations, interest rates, and unemployment. economic fluctuations, inflation, and money. economic fluctuations, inflation, and unemployment. interest rates, money supply, and taxes. economic fluctuations, interest rates, and money.   |  |
|    | NS: C DIF: Easy REF: 1.1 TOP: I. ISC: Remembering   |  |
| 3. | lacroeconomics is to microeconomics what is to  cosmology; particle physics   |  |
|    | NS: A DIF: Easy REF: 1.1 TOP: I. ISC: Applying  |  |
| 4. | Why is the typical person in the United States today more than 10 times richer than the typical person a century ago?  Why has the unemployment rate been nearly twice as high in Europe as in the United States is recent years?  What determines the rate of inflation? What determines how rapidly the overall price level in an economy increases?  i only  d. i and ii  i, ii, and iii  e. ii and iii  ii only |  |
|    | NS: B DIF: Moderate REF: 1.1 TOP: I. ISC: Applying  |  |
| 5. | Why is the typical person in the United States today more than 10 times richer than the typical person a century ago?  Why has the unemployment rate been nearly twice as high in Europe as in the United States is   |  |

iii. Why has the price of orange juice risen sharply?

recent years?

a. ii and iii d. i, ii, and iii *i* only *iii* only c. ii only ANS: E DIF: Moderate REF: 1.1 TOP: I. MSC: Applying 6. Which of the following does macroeconomics endeavor to answer? What role does the government play in recessions, booms, and determining the rate of inflation? ii. What causes an increase in the price of Exxon stock? iii. How does a dairy farmer react to rising milk prices? a. *i* only d. i, ii, and iii e. ii and iii b. *ii* only c. iii only ANS: A TOP: II. DIF: Moderate REF: 1.2 MSC: Applying 7. Which of the following does macroeconomics endeavor to answer? How does a dairy farmer react to rising wheat prices? What causes an increase in the price of Apple stock? iii. What are potential causes of financial crises? a. *i* only d. i, ii, and iii b. ii only e. ii and iii iii only ANS: C DIF: Moderate REF: 1.1 TOP: II. MSC: Applying 8. Which of the following does macroeconomics endeavor to answer? What role does the government play in recessions, booms, and determining the rate of inflation? ii. What caused the currency crises in Mexico in the mid-1990s and in many Asian economies at the end of the 1990s? iii. How does a dairy farmer react to rising milk prices? a. iii only d. i, ii, and iii b. *ii* only e. i and iii c. i and ii TOP: II. ANS: C DIF: Moderate REF: 1.1 MSC: Applying 9. Which of the following lists the four steps we use to study macroeconomic behavior in the correct order? (1) document the facts; (2) develop a model; (3) compare the predictions of the model to the original facts; and (4) use the model to make other predictions that may eventually be

- - tested
  - b. (1) document the facts; (2) use the model to make other predictions that may eventually be tested; (3) compare the predictions of the model to the original facts; and (4) develop a model
  - (1) compare the predictions of the model to the original facts; (2) develop a model; (3) document the facts; and (4) use the model to make other predictions that may eventually be tested

|     |  |  |  |   | document t ) use the mo                     |   |  |   |       |         |
|-----|--|--|--|---|---|---|--|---|-------|---------|
|     | e.   | None of  | these ar   | nswers  | is correct.                                 |   |  |   |       |         |
|     |  | S: A<br>C: Reme  |  | DIF:  | Easy  | REF:  | 1.2  | TOP:  | II.   |         |
| 10. | a.<br>b.<br>c.<br>d.<br>e.   | Shocks; p<br>Endogend<br>Endogend<br>Exogend<br>Paramete | the mode<br>paramete<br>ous varia<br>ous variat<br>us variat<br>ers; syste | el.<br>ers<br>ables; e<br>ables; s<br>oles; en<br>m varia | dogenous va<br>ables                        | ariables<br>ariables                          |  |   |       | are the |
|     |  | S: D<br>C: Reme  |  | DIF:  | Easy  | REF:  | 1.2  | TOP:  | II.   |         |
| 11. | i.<br>ii.<br>iii. ]<br>a.<br>b.  | How doe  | changes<br>s money<br>s investm  | in gove<br>supply   | ernment poly<br>influence i<br>ect economi  | icies chang<br>nflation?                      | _  |   |       |         |
|     |  | S: B<br>C: Apply   | ring   | DIF:  | Moderate                                    | REF:  | 1.2  | TOP:  | II.   |         |
| 12. | i.<br>ii.<br>iii.<br>a.<br>b.  | How doe  | changes<br>s money<br>ne relatio   | in gove<br>supply   | ernment poly<br>influence i<br>petween infl | icies chang<br>nflation?<br>ation and u<br>d. | e the labor  | market?                                       |       |         |
|     |  | S: C<br>C: Apply   | ring   | DIF:  | Moderate                                    | REF:  | 1.2  | TOP:  | II.   |         |
| 13. | <ul><li>i.</li><li>ii.</li><li>iii.</li><li>a.</li><li>b.</li><li>c.</li></ul> | Why, in a How much why does i and ii ii only iii only    | general,<br>ch less u  | do Am<br>nemplo<br>ted Sta                                | ericans have                                | e higher indered during ower unem d. e.       | comes than<br>an economic<br>ployment ra<br>i, ii, and ii<br>i and iii | Africans?<br>ic expansio<br>ate than Eu<br>ii | rope? |         |
|     |  | S: D<br>C: Apply   | ring   | DIF:  | Moderate                                    | REF:  | 1.2  | TOP:  | 11.   |         |
| 14. |  | nsider the<br>or supply                                  |  | _   | el of the lab                               | or market:                                    |  |   |       |         |

|     | Labor demand: $L^d = 1$<br>The endogenous variety  | •   |  |                                    |             |    |
|-----|--|---|--|------------------------------------|-------------|----|
|     | a. $\overline{f}$ and $\overline{a}$ .<br>b. $\overline{a}$ and the equilib<br>c. $\overline{f}$ and the equilibility d. the equilibrium q<br>e. $\overline{a}$ and the equilibrium  | orium wage, и<br>uantity of lab   | or, $L^*$ , and wag  | e, w*.                             |             |    |
|     | ANS: D<br>MSC: Applying  | DIF: Diffic   | cult REF:  | 1.2                                | TOP: II.    |    |
| 15. | Consider the following Labor supply: $L^3 = \overline{L}^3$ Labor demand: $L^{d} = \overline{L}^3$ The values of the equation $L^{d} = \overline{L}^3$   | $\overline{t} \times w + \overline{\ell}$ $\overline{f} - w$  |  | and wage, w, a                     | are:        |    |
|     | a. $L^* = \frac{\overline{a} \ \overline{f} + \overline{\ell}}{1 + \overline{a}}; \ w$ b. $L^* = (\overline{a} \ \overline{f} + \overline{\ell}) / (\overline{\ell})$ c. $L^* = (\overline{a} \ \overline{f} + \overline{\ell}) / (\overline{\ell})$ d. $L^* = (\overline{a} \ \overline{f} + \overline{\ell}) / (\overline{\ell})$ e. $L^* = \frac{\overline{a} \ \overline{f} + \overline{\ell}}{\overline{\ell} + \overline{a}}; \ w$ | $(\overline{\ell} + \overline{\alpha}); w^* = (\overline{\ell} + \overline{\alpha}); w^* = (\overline{\ell} - \overline{\alpha}); w^* = (\overline{\ell} -$ | $(\bar{f} - \bar{\ell})/(\bar{\ell} - \bar{a})$<br>$(\bar{f} + \bar{\ell})/(\bar{\ell} + \bar{a})$ |                                    |             |    |
|     | ANS: A<br>MSC: Applying  | DIF: Diffic   | cult REF:  | 1.2                                | TOP: II.    |    |
| 16. | Consider the following Labor supply: $L^5 = 1$ Labor demand: $L^d = 1$ The value of the equivalent $L^* = 4^{4/5}$ ; $w^* = 1$ b. $L^* = 1$ ; $w^* = 1$ c. $L^* = 1$ 6; $w^* = 1$  | + w<br>11 – w<br>librium quant<br>1/5.  | ity of labor, $L$ , $a$  | $L^* = 6; w^*$                     |             |    |
|     | ANS: C<br>MSC: Applying  | DIF: Diffic   | cult REF:  | 1.2                                | TOP: II.    |    |
| 17. | Income per person be 2012. a. \$2,500; rose; \$35 b. \$2,800; rose; \$58 c. \$2,800; rose; \$10  | 5,000<br>3,000  | d.   | \$44,000; fell;<br>\$40,000; fell; | ; \$3,500   | in |
|     | ANS: B<br>MSC: Remembering   | •   | REF:   | 1.3                                | TOP: III.A. |    |
| 18. | Actual gross domesti<br>a. rarely not<br>b. always   | c product (GE   | d.   | rarely                             | tial GDP.   |    |

|      | c. always not  |                      |           |                |        |                 |  |  |  |  |
|------|--|----------------------|-----------|----------------|--------|-----------------|--|--|--|--|
|      | ANS: D DIF: MSC: Understanding   | Easy                 | REF:      | 1.3            | TOP:   | III.A.   III.B. |  |  |  |  |
| 19.  | When we look at the run, we are concerned with the  a. short; causes of economic fluctuations b. long; causes of economic fluctuations c. short; determinants of economic growth d. long; causes of inflation e. long; money supply  ANS: A DIF: Easy REF: 1.3 TOP: III.A.   III.B.  |                      |           |                |        |                 |  |  |  |  |
|      | ANS: A DIF: MSC: Understanding   | Easy                 | REF:      | 1.3            | TOP:   | III.A.   III.B. |  |  |  |  |
| 20.  | 0. When we look at the run, we are concerned with  a. long; the money supply  b. long; the causes of economic fluctuations  c. long; the causes of economic growth  d. long; the causes of inflation  e. long; unemployment  |                      |           |                |        |                 |  |  |  |  |
|      | ANS: C DIF: MSC: Understanding   | Easy                 | REF:      | 1.3            | TOP:   | III.A.          |  |  |  |  |
| 21.  | The short run is concerned with, while the long run is concerned with  a. inflation; unemployment  b. the causes of economic fluctuations; inflation  c. the causes of economic fluctuations; the determinants of economic growth  d. the determinants of economic growth; the causes of economic fluctuations  e. the causes of economic fluctuations; the money supply |                      |           |                |        |                 |  |  |  |  |
|      | ANS: C DIF: MSC: Understanding   | Easy                 | REF:      | 1.3            | TOP:   | III.B.          |  |  |  |  |
| TRUE | E/FALSE  |                      |           |                |        |                 |  |  |  |  |
| 1.   | Macroeconomics is the stu  | dy of an individ     | ual marl  | ket.           |        |                 |  |  |  |  |
|      | ANS: F DIF: MSC: Remembering NOT: It is the study of the   | Easy overall perforn | REF:      |                | TOP:   | I.              |  |  |  |  |
| 2.   | These four steps, in the following order, are used to study macroeconomic behavior: (1) document the facts; (2) develop a model; (3) compare the predictions of the model to the original facts; and (4) use the model to make other predictions that eventually may be tested.  |                      |           |                |        |                 |  |  |  |  |
|      | ANS: T DIF: MSC: Applying  | Easy                 | REF:      | 1.2            | TOP:   | II.             |  |  |  |  |
| 3.   | These four steps, in the fol (1) document the facts;   | lowing order, ar     | e used to | o study macroe | conomi | ic behavior:    |  |  |  |  |

|     | <ul><li>(2) use the model to make other predictions that may eventually be tested;</li><li>(3) compare the predictions of the model to the original facts; and</li><li>(4) develop a model.</li></ul> |                |                       |            |        |                      |  |     |  |  |  |
|-----|---|----------------|-----------------------|------------|--------|----------------------|--|-----|--|--|--|
|     | ANS: F<br>MSC: Applying   |                | Easy                  | REF:       | 1.2    | TOP:                 | II.  |     |  |  |  |
|     | NOT: They are   | (1) document   |                       |            |        |                      | e the predictions of<br>ns that eventually n |     |  |  |  |
| 4.  | A main concern of long-run macroeconomics is the causes of economic growth.   |                |                       |            |        |                      |  |     |  |  |  |
|     | ANS: T<br>MSC: Applying   |                | Easy                  | REF:       | 1.3    | TOP:                 | III.A.                                       |     |  |  |  |
| 5.  | A main concern of long-run macroeconomics is the causes of economic fluctuations.   |                |                       |            |        |                      |  |     |  |  |  |
|     | ANS: F  | DIF:           | Easy                  | REF:       |        | TOP:                 |  |     |  |  |  |
|     | MSC: Understa   | ınding         |                       | NOT:       | We are | e concerned wi       | th economic growth                           | 1.  |  |  |  |
| 6.  | A main concern of short-run macroeconomics is the causes of economic fluctuations and how to fix them.  |                |                       |            |        |                      |  |     |  |  |  |
|     | ANS: T<br>MSC: Applying   |                | Moderate              | REF:       | 1.3    | TOP:                 | III.B.                                       |     |  |  |  |
| 7.  | A main concern of short-run macroeconomics is the causes of economic growth.  |                |                       |            |        |                      |  |     |  |  |  |
|     | ANS: F MSC: Understa  | _              | ·                     | REF:       |        | TOP:                 | III.B.                                       |     |  |  |  |
| 8.  | An economic model is an exact replica of the economy.   |                |                       |            |        |                      |  |     |  |  |  |
|     | ANS: F  |                | Moderate              | REF:       | 1.2    | TOP:                 | II.  |     |  |  |  |
|     | MSC: Analyzing NOT: It is a very simplified version of the economy that gives us insight into how the economy functions.  |                |                       |            |        |                      |  |     |  |  |  |
| 9.  | An endogenous variable is often called a parameter.   |                |                       |            |        |                      |  |     |  |  |  |
|     | ANS: F<br>MSC: Understa<br>NOT: It is a va  | •              | Moderate predicted by | REF:       |        | TOP: arameter is cho | II.  | st. |  |  |  |
| 10. | An exogenous v  | variable is on | e that is take        | n as given | (what  | the text refers t    | o as parameters).                            |     |  |  |  |
|     | ANS: T<br>MSC: Rememb   | DIF:           | Easy                  | REF:       | 1.2    | TOP:                 | II.  |     |  |  |  |

1. What are at least four of the main concerns of the study of macroeconomics?

### ANS:

Here are a handful of options:

- (a) Why does the average person today have 10 times more income than the typical person 100 years ago?
- (b) What determines the rate of inflation, and how do we control it?
- (c) How can we minimize the number of people unemployed?
- (d) What role, if any, does the government and/or central bank have in promoting economic well-being?
- (e) Why do unemployment rates differ across countries?
- (f) Why are some countries richer than others, and how can we promote development in lower-income countries?
- (g) What are the causes, and fixes, for economic crises?

DIF: Moderate

REF: 1.1

TOP: I.

MSC: Understanding

2. What are the steps macroeconomists use to analyze the economy?

#### ANS:

- (a) Document the facts;
- (b) Develop a framework for analysis (a model);
- (c) Test the model using empirical analysis or some other comparable analysis and compare to the observed facts; and
- (d) Use the model to make other predictions that may eventually be tested

DIF: Easy

REF: 1.2

TOP: II.

MSC: Remembering

3. Describe the differences between the short run and the long run.

#### ANS:

In the short run, we are concerned with the causes of economic fluctuations, or the business cycle. In the long run, we are concerned with the determinants of economic growth. Thus, the long run is the trend of output, and the short run represents the fluctuations around the trend.

DIF: Moderate

**REF: 1.3** 

TOP: III.A. | III.B. MSC: Understanding

4. Consider the following model of the labor market:

Labor Supply:  $L^3 = (\overline{a}w + \overline{\ell})$ Labor Demand:  $L^d = \overline{f} - w$ .

- (a) Identify the model's parameters.
- (b) Identify the endogenous variables.
- (c) Solve the model.
- (d) What must the relationship between  $\bar{f}$  and  $\bar{t}$  be?
- (e) If the supply and demand for labor were given as

$$L^s = 2w + 2$$

and

$$L^d = 3 - 3w$$

what are the equilibrium wage and labor force?

ANS:

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- (a) Using the notation in the text, the parameters are  $\bar{a}$ ,  $\bar{\ell}$ , and  $\bar{f}$ .
- (b) They are the wage, w, and the labor in the market, L.
- (c) Setting supply equal to demand, we get

$$(\overline{a}w + \overline{\ell}) = \overline{f} - w.$$

Solving this for w\* and L\*, we get

$$L^* = \frac{\overline{\alpha} \ \overline{f} + \overline{\ell}}{1 + \overline{\alpha}}; \ w^* = (\overline{f} - \overline{\ell})/(1 + \overline{\alpha}).$$

- (d) To ensure the wage is positive, it must be that  $\overline{f} > \overline{\ell}$ . (e) Using the above equation we get  $w^* = 1/5$  and  $L^* = 12/5$ .

DIF: Difficult REF: 1.2 TOP: II. MSC: Applying