## Test Bank for Microeconomic Theory Basic Principles and Extensions 12th Edition by Nicholson IBSN 9781305505797

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- 1. Indifference curves:
  - a. may sometimes intersect.
  - b. are contour lines only of a linear utility function.
  - c. are convex if the utility function is quasi-concave.
  - d. shift when prices change.

ANSWER: c
POINTS: 1

- 2. For an individual who consumes only two goods, x and y, the opportunity cost of consuming one more unit of x in terms of how much y must be given up is reflected by:
  - a. the individual's marginal rate of substitution.
  - b. the market prices of x and y.
  - c. the slope of the individual's indifference curve.
  - d. none of the above.

ANSWER: b
POINTS: 1

- 3. If bundles of goods A and B lie on the same indifference curve, one can assume the individual:
  - a. prefers bundle A to bundle B.
  - b. prefers bundle *B* to bundle *A*.
  - c. enjoys bundle A and B equally.
  - d. bundle A contains the same goods as bundle B.

ANSWER: c
POINTS: 1

Questions 4 and 5 refer to an individual whose utility function is given by:

$$U(x,y) = 4x + 2y$$

- 4. With this utility function, the bundle (3,2) provides the same utility as the bundle:
  - a. (2, 3).
  - b. (2, 4).
  - c. (2, 5).
  - d. (3, 3).

ANSWER: b

POINTS: 1

- 5. For this utility function, the MRS:
  - a. depends on the values of *x* and *y*.
  - b. is always 0.
  - c. is always 2.
  - d. is always 4.

ANSWER: c
POINTS: 1

6. Which of these utility functions represent the same preferences as  $U(x, y) = \sqrt{xy}$ ?

a. 
$$U(x, y) = 10\sqrt{xy}$$

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- b. U(x,y) = xy
- c.  $U(x, y) = \ln x + \ln y$
- d. All of the above represent the same preferences.

ANSWER: d

POINTS: 1

- 7. If utility is given by  $U(x,y) = \sqrt{xy}$ , then the person's MRS at the point x = 5, y = 2 is given by:
  - a. 0.4
  - b. 1.0.
  - c. 2.5.
  - d. 5.0.

ANSWER: a

POINTS: 1

- 8. If utility is given by  $U(x,y) = x^2 + 2xy + y^2$ , this person's indifference curves are:
  - a. parabolas.
  - b. hyperbolas.
  - c. concentric circles.
  - d. straight lines.

ANSWER: d

POINTS: 1

- 9. Which of the following utility functions best represents the idea that two goods, x and y, are perfect complements?
  - a.  $U(x, y) = \sqrt{xy}$
  - b. U(x, y) = x + y
  - c. U(x, y) = |x y|
  - d.  $U(x, y) = \min(x, y)$

ANSWER: d

POINTS: 1

- 10. If an individual's utility function is quasi-concave, his or her MRS will:
  - a. diminish as x is substituted for y.
  - b. increase as x is substituted for y.
  - c. be undefined except in special cases.
  - d. always depend only on the ratio of x to y.

ANSWER: a

POINTS: 1

- 11. If utility is given by  $U(x, y) = \min(x, 3y)$  then the bundle (3, 2) provides the same utility as the bundle:
  - a. (1, 3).
  - b. (2, 3).
  - c. (4, 1).
  - d. (4, 2).

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ANSWER: c
POINTS: 1

12. Which of the following utility functions *would not* be consistent with the notion that *x* and *y* are both "goods" with positive marginal utilities?

a. 
$$U(x,y) = x^2y$$

b. 
$$U(x, y) = x + y$$

c. 
$$U(x, y) = x\sqrt{y}$$

d. 
$$U(x,y) = x/y$$

ANSWER: d
POINTS: 1

Problems 13 and 14 concern the CES utility function:

$$U(x,y) = \frac{x^{\delta}}{\delta} + \frac{y^{\delta}}{\delta}$$
 for  $\delta \le 1, \delta \ne 0$  and  $U(x,y) = \ln x + \ln y$  for  $\delta = 0$ .

13. For this utility function, marginal utilities are:

- a. negative for  $\delta < 0$ .
- b. diminishing only for  $\delta > 0$ .
- c. increasing for  $\delta > 0$ .
- d. always positive.

ANSWER: d
POINTS: 1

- 14. For this utility function smaller values for  $\delta$  imply:
  - a. increasingly concave indifference curves.
  - b. increasingly convex indifference curves.
  - c. indifference curves that are convex, linear, and then concave.
  - d. indifference curves that are concave, linear, and then convex.

ANSWER: b POINTS: 1