Microeconomic Theory Basic Principles and Extensions 10th Edition Nicholson Test Bank

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Chapter 3

Preferences and Utility

- 1. Indifference curves
 - a. are non-intersecting.
 - b. are contour lines of a utility function.
 - c. are negatively sloped.
 - d. all of these are correct.

ANSWER: d AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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 these is correct.

ANSWER: b AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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 AACSB: NATL – Analytical LOC: Utility and consumer choice

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 AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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 AACSB: NATL – Analytical LOC: Utility and consumer choice

6. Which of the following utility functions represent the same preferences as

$$U(x,y) = \sqrt{x \cdot y} ?$$

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

b.
$$U(x, y) = x \cdot y$$
.

c.
$$U(x, y) = \ln x + \ln y$$
.

d. All of these represent the same preferences.

ANSWER: d AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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 AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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 AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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 AACSB: NATL – Analytical LOC: Utility and consumer choice

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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 AACSB: NATL – Analytical LOC: Utility and consumer choice

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).

ANSWER: c AACSB: NATL – Analytical LOC: Utility and consumer choice

- 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. $U(x, y) = x^2 y$.
 - b. U(x, y) = x + y.
 - c. $U(x, y) = x\sqrt{y}$.
 - d. U(x, y) = x/y.

ANSWER: d AACSB: NATL – Analytical LOC: Utility and consumer choice