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 + yc. 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).

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

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:

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

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 δ 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