Assignment 7

Box on 2013-08-28, 10:29:53

1. Describe the following using Market Basket Analysis.

\[ \text{itemset} = \{ \text{biscuits}, \text{cheese}, \text{milk} \} \]

- a. \{biscuits, milk\}
- b. \{cheese\}
- c. \{biscuits\}
- d. \{milk\}

2. The set operations of \{a, b\} - \{b\} is:

- a. \{a\}
- b. \{b\}
- c. \{a, b\}
- d. \{\}

3. The definition of \{1, 2\} is:

- a. A 3-digit number
- b. A 2-digit number
- c. A 1-digit number
- d. A 0-digit number

4. The set operations of \{2, 3\} \cup \{2, 4\} is:

- a. \{2\}
- b. \{3\}
- c. \{2, 3\}
- d. \{2, 4\}

5. The sum of the following numbers:

\[ 1 + 2 + 3 + 4 + 5 \]

- a. 15
- b. 10
- c. 20
- d. 25

6. Which of the following statements is/are true for the logical equivalence of 'a'?

- a. \( a \land \neg a \)
- b. \( a \lor \neg a \)
- c. \( a \to a \)
- d. \( a \land \neg a \lor a \)

7. The polynomial of the following equations:

\[ \text{polynomial} = x^2 + 2x + 1 \]

- a. \( x^2 + 2x + 1 \)
- b. \( 2x^2 + x + 1 \)
- c. \( x^2 + 2x - 1 \)
- d. \( 2x^2 + x - 1 \)

8. Which of the following statements is true for the logical equivalence of 'b'?

- a. \( b \land \neg b \)
- b. \( b \lor \neg b \)
- c. \( b \to b \)
- d. \( b \land \neg b \lor b \)

9. The number of possible outcomes for a configuration is:

- a. 3
- b. 2
- c. 1
- d. 0

10. If a list is a complete tree on 10 nodes, then the root of the complete tree would be:

- a. 10
- b. 5
- c. 2
- d. 1

11. To find central points of a circle, the vertices of a polygon from:

- a. Center of circle
- b. Center of polygon
- c. Center of circle and polygon
- d. Center of circle or polygon

12. If a circle's radius is a straight line from the center of the circle to the circle's edge, then:

- a. Center of circle
- b. Center of polygon
- c. Center of circle and polygon
- d. Center of circle or polygon