Quiz1 Results

Question 1 (0.4 / 0.4 pts)

What is the value of
(p→q)∧¬(p∨q)(p \rightarrow q) \land \neg (p \lor q) **if** pp **is False and** qq **is False?**

- **Selected Answer:** True
- **Correct Answer:** True

Question 2 (0.4 / 0.4 pts)

What is the value of
¬(p→q)∧p\neg (p \rightarrow q) \land p **if** pp **is True and** qq **is False?**

- **Selected Answer:** True
- **Correct Answer:** True

Question 3 (0 / 0.8 pts)

On an island, you can win a treasure by selecting the correct trunk. Only one trunk has treasure. Three trunks are marked 1, 2, and 3, and have corresponding inscriptions:

1. "The treasure is in trunk 2"
2. "The treasure is in trunk 3"
3. "This trunk is empty"

Assume the queen who never lies said: "Exactly two inscriptions are false". Which trunk should you pick?

- **Selected Answer:** Trunk 2
- **Correct Answer:** Incorrect

Question 4 (1.5 / 1.5 pts)

Find the bitwise OR for the following 8-bit strings:

Inputs:

- 11101010
- 10110000

Selected Answer: 11111010

- **Correct Answer:** 11111010 ✅

Find the bitwise AND for the following 8-bit strings:

Inputs:

- 00101110
- 10101001

Selected Answer: 00101000

- **Correct Answer:** 00101000 ✅

Find the bitwise XOR for the following 8-bit strings:

Inputs:

- 11101101
- 00101111

Selected Answer: 11000010

- **Correct Answer:** 11000010 ✅

Question 5 (0.9 / 0.9 pts)

Proposition:

"If the sun is a star, then the earth is a planet."

Inverse:

"If the sun isn't a star, then the earth isn't a planet."

Converse:

"If the earth is a planet, then the sun is a star."

Contrapositive:

"If the earth isn't a planet, then the sun isn't a star."

- **Selected Answer 1:** If the sun isn't a star, then the earth isn't a planet. ✅
- **Selected Answer 2:** If the earth is a planet, then the sun is a star. ✅
- **Selected Answer 3:** If the earth isn't a planet, then the sun isn't a star. ✅

Total Score: 3.2 / 4.0 pts