IIT Jodhpur

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Quiz-2 (29-03-2020)
1 message

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Quiz-2 (29-03-2020)

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Name *

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Which of the following is/are semantically equivalent? *

☑ p -> q and ~q -> ~p

☑ p /\ q -> p and r \/ ~r

☑ p ∧ q -> r and p -> (q -> r)

☑ p -> q and ~p \/ q

Which of the following is not in CNF? *

◯ x ∧ ~y ∧ z

◯ (~y) ∧ (y \/ z)

◯ x \/ ~y \/ z

◉ x \/ ~y ∧ z

Which of the following will not be in the CNF of: (p \/ q) -> (q ∧ ~r) *

◯ p \/ ~q \/ ~r

◯ ~p \/ q \/ r

◉ p \/ q \/ ~r

◯ ~p \/ ~q \/ ~r

(x ∧ ~(y \/ z) \/ u) is semantically equivalent to *

◯ (x ∧ (~y ∧ ~z \/ u))

◯ (~x \/ (~y ∧ ~z \/ u))

◯ ((x ∧ ~y) ∧ (~z) \/ u))

◉ ((x ∧ ~y ∧ ~z) \/ u)

Translate the following sentence into propositional logic: If you concentrate only if you are threatened, then you will not pass unless you are threatened – provided that concentrating is a necessary condition for passing. (C: concentrate, T: threatened, P: will pass) *

○ (~C -> ~P) -> (~T -> ~C) -> (~T -> ~P)

◉ (~C -> ~P) -> ((~T -> ~C) -> (~T -> ~P))

○ ((~C -> ~P) -> (~T -> ~C)) -> (~T -> ~P)

○ None of the above

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