Discrete Mathematics - Fall Semester - 2021/2022

Question 1
Not yet answered
Marked out of 1.00
⚑ Flag question

What is the truth value of quantifier ∀x P(x) , where x > 1/x , x in the domain of R is

Select one:
- ○ a. True
- ● b. False
- ○ c. None

Quiz navigation

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Finish attempt ...

Time left **0:24:36**

Question 2
Not yet answered
Marked out of 2.00
⚑ Flag question

What is the power set of the set {Ø}?

Select one:
- ● a. P(Ø) = {Ø,{Ø}}
- ○ b. P(Ø) = {Ø}

Question 3
Not yet answered
Marked out of 2.00
⚑ Flag question

Choose the correct output of this combinational circuit.

Select one:
- ○ a. ((¬p) ∧ (¬q)) ∧ (p∧r)
- ○ b. ((¬p) ∧ (¬q)) ∨(¬p∧r)
- ○ c. ((p) ∧(¬q)) ∨(p∧r)
- ● d. ((¬p) ∧ (¬q)) ∨(p∧r)

Question 4
Not yet answered
Marked out of 2.00
⚑ Flag question

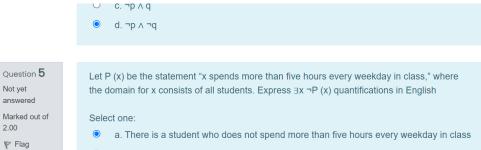Let *p* and *q* be the propositions

p: It is below freezing.

q: It is snowing.

Then the statement "It is not below freezing and it is not snowing"

is equivalent to which propositions

Select one:
- ○ a. ¬p → ¬q
- ○ b. ¬p ∨ ¬q

○ c. ¬p ∧ q

● d. ¬p ∧ ¬q

Question 5

Not yet answered

Marked out of 2.00

⚑ Flag question

Let P (x) be the statement "x spends more than five hours every weekday in class," where the domain for x consists of all students. Express ∃x ¬P (x) quantifications in English

Select one:

○ a. There is a student who does not spend more than five hours every weekday in class

○ b. No student spends more than five hours every weekday in class

○ c. There is a student who spends more than five hours every weekday in class.

○ d. Every student spends more than five hours every weekday in class.

Finish attempt ...