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Quiz-8 (19-04-2020)

1 message

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Quiz-8 (19-04-2020)Your email address (yashaswi@iitj.ac.in) was recorded when you submitted this form.**Name ***

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Which of the following is/are equivalent? *

- ☒ $\forall x.(P(x))$ and $\sim \exists x.(\sim P(x))$
- ☒ $\exists x.(P(x))$ and $\sim \forall x.(\sim P(x))$
- ☒ $\sim \forall x.(P(x))$ and $\exists x.(\sim P(x))$

☒ $\neg \exists x.(P(x))$ and $\forall x.(\neg P(x))$

Assume our domain has four elements: {Kabir, Rahim, George, tablespoon}; where the first three elements are names of persons, and the fourth element is a utensil. The predicate "Poet(x)" means "x is a poet", and the predicate "Person(x)" means "x is a person". Here, the words "person" and "poet" have the conventional meanings. Then, which of the following would have a strong compliance with the given domain: *

☒ $\forall x. (Poet(x) \rightarrow Person(x))$

☐ $\forall x. (Poet(x) \wedge Person(x))$

☒ $\exists x. (Poet(x) \wedge Person(x))$

☐ $\forall x. (Poet(x) \vee Person(x))$

Consider the sentence: $\exists x.(p(x) \rightarrow q(x))$. Assume we are sure that there is no value of x for which q(x) is true. Is it still possible that the above statement is true? *

☒ Yes

☐ No

Which of the following is/are true? *

☒ Mapping from sentences to sentences comes under inference.

☐ Mapping from sentences to sentences comes under semantics.

☐ Mapping from sentences to facts comes under inference.

☒ Mapping from sentences to facts comes under semantics.

Which of the following sentences can be translated into FOL? *

- ☒ No purple mushroom is poisonous.
- ☒ You can fool all of the people some of the time.
- ☒ There are exactly two purple mushrooms.
- ☒ You can fool some of the people all of the time.

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