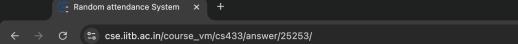


RollNo. 23B0912 Home Logout

CS433 Q 1: Which of the following are true about a theory T?

☐ If T is	axiomatizable, then T is enumerable.
☐ Due t	o Gödel's incompleteness theorem, natural numbers are not axiomatizable.
☐ Due to Gödel's incompleteness theorem, set theory is not axiomatizable.	
☐ T is a set of formula that is closed under implication.	
Answer	

Note: please be careful before submitting the answer. You will not be able to change the answers.









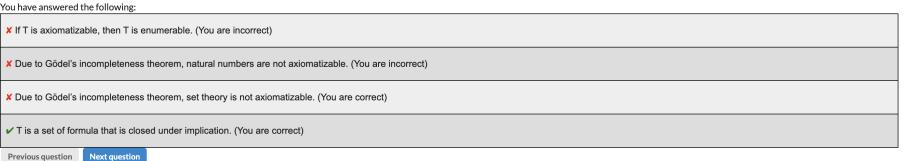






Please click on home if your are viewing old quiz!

CS433 Q 1: Which of the following are true about a theory T?







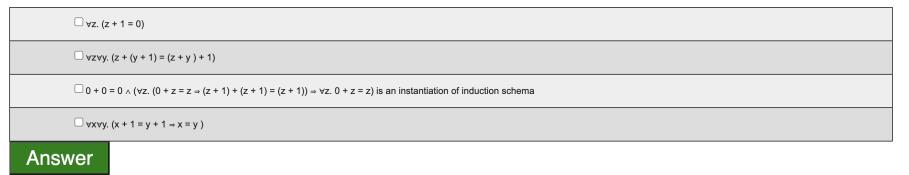




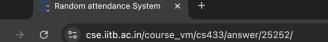




CS433 Q 2: Which of the following are axioms of Presburger arithmetic?



Note: please be careful before submitting the answer. You will not be able to change the answers.











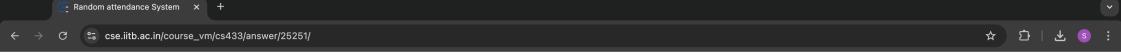




CS433 Q 2: Which of the following are axioms of Presburger arithmetic?

You have answered the following: \times \forall z. (z + 1 = 0) (You are correct) ✓ ∀z∀y. (z + (y + 1) = (z + y) + 1) (You are correct) \checkmark 0 + 0 = 0 ∧ (\forall z. (0 + z = z ⇒ (z + 1) + (z + 1) = (z + 1)) ⇒ \forall z. 0 + z = z) is an instantiation of induction schema (You are correct) \checkmark ∀x∀y. (x + 1 = y + 1 ⇒ x = y) (You are correct)

Next question



RollNo. 23B0912 Home Logout

CS433 Q 3: Which of the following is true about Z3 python interface?

□ x = BitVec('y') constructs a bit-vector variable y.	
z = And(a,b) constructs a formula that is disjunction of a and b.	
check() function of solver object checks satisfiability of added formulas to the solver.	
□ Var('x') constructs a variable x.	
Answer	

Note: please be careful before submitting the answer. You will not be able to change the answers.





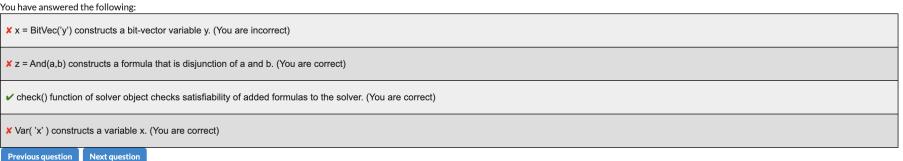








CS433 Q 3: Which of the following is true about Z3 python interface?



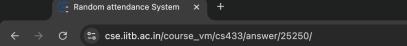


RollNo. 23B0912 Home Logout

CS433 Q 4: Which of the following is true about SMT2 file format?

	declare-fun creates a new function symbol	
	☐ All SMT solvers support the file format	
	☐ There is a database of satisfiability problems in SMT2 format	
pop removes formulas upto the last marker on the formula stack		
	Answer	

Note: please be careful before submitting the answer. You will not be able to change the answers.

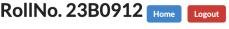












CS433 Q 4: Which of the following is true about SMT2 file format?

