Dashboard / My courses / MA-224-G 24H / Tests / Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars)

Started on Wednesday, 11 September 2024, 12:16 PM

State Finished

Completed on Wednesday, 11 September 2024, 12:38 PM

Time taken 22 mins 26 secs

Marks 0.00/3.00

Grade 0.00 out of 3.00 (0.03%)

Information

Information

This page contains all the problems for this test. The very last problem asks you to contact the person in charge of the exam and tell him or her the 4-digit key given in the problem text. In return you will be given a 5-digit signing code which you must give as the answer to the problem.

This problem does not count towards the final score, but tests missing this code will not count towards the final grade.

The following rules apply:

- Total time allowed: 30 minutes. The test will automatically close if time runs out.
- UiA's usual rules in regards to cheating on exams apply.

Question 1

Incorrect

Mark 0.00 out of 1.00

What is the contraposition of the following formula?

$$(\neg p \Rightarrow q) \Longrightarrow (\neg s \Rightarrow t)$$

Hints:

$$\neg (A \land B) = \neg A \lor \neg B$$
$$\neg (A \lor B) = \neg A \land \neg B$$
$$A \implies B = \neg A \lor B$$

Select the precedent and the antecedent of the implication.

$$p \lor \neg q$$
 \Longrightarrow $s \lor \neg t$

Mark 0.00 out of 1.00

Question **2**Incorrect

Compute the prime factorizations of the following natural numbers.

Write the answer in the following form:

$$p_1^{e_1}\cdot p_2^{e_2}\cdot \dots p_n^{e_n}$$

where p_i is a prime and e_i is a natural number. All the primes p_i must be distinct.

number	prime factors
4410	2*10^3*2*2^1*2*2^5
	Your last answer was interpreted as follows:
	$2\cdot 10^3\cdot 2\cdot 2^1\cdot 2\cdot 2^5$
1176	2*10^3*2*10^2*2*2^2
	Your last answer was interpreted as follows:
	$2\cdot 10^3\cdot 2\cdot 10^2\cdot 2\cdot 2^2$
616	2*10*10*6
	Your last answer was interpreted as follows:
	$2\cdot 10\cdot 10\cdot 6$

24, 12:45	Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars): Attempt review
Question 3	
Incorrect	
Mark 0.00 out of 1.0	00
Consider the f	following EBNF grammar.
	y pen } hut Cat
	ug] { map Jay }+
Cat → Bug hat	
Translate it int	to a grammar 4-tuple.
	n something in each field to get a marking.
Terminals =	
Nonterminals	1
= Start symbol	
=	
Rules =	0
Your l	ast answer was interpreted as follows:
	0
Your la	ast answer was interpreted as follows:
	1
	1
Your la	ast answer was interpreted as follows:
	1
Vour	ast answer was interpreted as follows:
four is	
	0
Question 4	
Correct	
Mark 0.00 out of 0.0	
Cianin	a codo
Signing	g code
	the test you must ensure this problem with a signing sade siyon to you by the person in shares after that

Before closing the test you must answer this problem with a signing code given to you by the person in charge of the test.

Tests missing this signing code will be ignored and will not count towards the final score.

Key: 158
Signing code: 24963

Your last answer was interpreted as follows:

24963

▼ Technical test

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11.09.2024, 12:45		Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars): Attempt review
	Jump to	