Test 1 (topics 1-3: Introduction, Concepts, Induction, R...

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

Started on Wednesday, 11 September 2024, 2:32 PM

State Finished

Completed on Wednesday, 11 September 2024, 2:59 PM

Time taken 27 mins 30 secs

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Marks 2.67/3.00

Grade 2.67 out of 3.00 (88.89%)

Information

Information

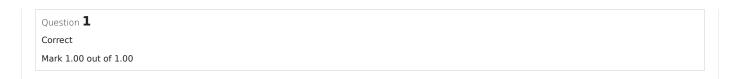
This page contains all the problems for this test. The very last problem asks you to contact the person in charge of the exam and tell him or her the 4-digit key given in the problem text. In return you will be given a 5-digit signing code which you must give as the answer to the problem.

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.

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Consider the set

$$\left\{0,5,\left\{0\right\},\left\{0,5\right\},\left\{5\right\},\left\{\left\{0\right\}\right\},\left\{\left\{5\right\}\right\}\right\}.$$

Mark all true statements.

- \mathbb{Z} {{5}}} \subseteq S
- \mathbb{Z} {{0}}} $\subseteq S$
- □ 0 ⊆ S
- $\boxed{\hspace{0.1cm}}$ $\{0\}\subseteq S$
- $\boxed{\ }$ $\{5\}\subseteq S$
- \bigcirc 0 \in S
- □ 5 ⊆ S
- None of the above

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Test 1 (topics 1-3: Introduction, Concepts, Induction, R...

Question 2	
Partially correct	
Mark 0.67 out of 1.00	

Translate the following numbers into the other bases and provide the intermediate division results (in base 10).

$$3303_{10} = \boxed{6347}$$
 8 with $\boxed{[3303, 412, 51, 6, 0]}$ $3303_{10} = \boxed{4n1}$ 26 with $\boxed{[3303, 127, 4, 0]}$ 25E₁₇ = $\boxed{302}$ 15 with $\boxed{[677, 45, 3]}$

Example:

$$1234_{10} = 86A_{12}$$
 with [1234, 102, 8, 0]

Your last answer was interpreted as follows:

6347

Your last answer was interpreted as follows:

 $\left[3303, 412, 51, 6, 0 \right]$

Your last answer was interpreted as follows:

4n1

Your last answer was interpreted as follows:

[3303, 127, 4, 0]

Your last answer was interpreted as follows:

302

Your last answer was interpreted as follows:

[677, 45, 3]

uestion 3	
Correct	
1ark 1.00 out of 1.00	
Consider the following EBNF of	grammar.
$C \rightarrow H \mid C * C$	
$H \rightarrow D \mid D + H$ $D \rightarrow i \mid a \mid f \mid d \mid h \mid p \mid \epsilon$	
Find a derivation for the follow	wing string: i ± i * i ± h
The derivation is given as a s	
_	
["C","C*C","H*C","H*H","D+H	*H","D+H*D+H","D+D*D+H","D+D*D+D","i+D*D+D","i+i*D+D","i+i*i+D","i
Your last answer was i	nterpreted as follows:
[C, C*C, H*C, H*H, D-	+H*H,D+H*D+H,D+D*D+H,D+D*D+D,i+D*D+D,i+i*D+D,i+i*i+D,i+D,i+i*i+D,i+D,i+D,i+D,i+D,i+D,i+D,i+D,i+D,i+D,
Correct Mark 0.00 out of 0.00	
Signing code Before closing the test you m test.	ust answer this problem with a signing code given to you by the person in charge of the
Before closing the test you m test.	ust answer this problem with a signing code given to you by the person in charge of the e will be ignored and will not count towards the final score.
Before closing the test you m test.	
Before closing the test you m test. Tests missing this signing cod	
Before closing the test you m test. Tests missing this signing cod Key: 393	e will be ignored and will not count towards the final score.
Before closing the test you m test. Tests missing this signing cod Key: 393 Signing code: 48220	e will be ignored and will not count towards the final score.
Before closing the test you m test. Tests missing this signing cod Key: 393 Signing code: 48220	e will be ignored and will not count towards the final score. Interpreted as follows:

Jump to...

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