

[Dashboard](#) / [My courses](#) / [MA-224-G 24H](#) / [Tests](#) / [Test 1 \(topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars\)](#)**Started on** Wednesday, 18 September 2024, 2:28 PM**State** Finished**Completed on** Wednesday, 18 September 2024, 2:57 PM**Time taken** 28 mins 33 secs**Marks** 2.15/3.00**Grade** 2.15 out of 3.00 (71.68%)

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

Partially correct

Mark 0.75 out of 1.00

Fill in the following truth table.

p	q	r	$q \Rightarrow (p \wedge (p \vee r))$
False	False	False	True
False	False	True	False
False	True	False	True
False	True	True	False
True	False	False	True
True	False	True	True
True	True	False	True
True	True	True	True

Question **2**

Correct

Mark 1.00 out of 1.00

Compute the least common multiple (lcm) and the greatest common divisor (gcd) of the numbers 336 and 360.

lcm :

Your last answer was interpreted as follows:

5040

gcd :

Your last answer was interpreted as follows:

24

Question **3**

Partially correct

Mark 0.40 out of 1.00

Consider the following EBNF grammar.

$$M \rightarrow K \mid M \wedge M$$
$$K \rightarrow V \mid V = K \mid \epsilon$$
$$V \rightarrow t \mid v \mid x \mid l \mid b \mid r \mid \epsilon$$

Find a derivation for the following string: $r = l \wedge b \wedge x$.

The derivation is given as a sequence of strings.

Your last answer was interpreted as follows:

[M, M^M, K^M, K^K]

Question **4**

Correct

Mark 0.00 out of 0.00

Signing code

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: 369

Signing code:

Your last answer was interpreted as follows:

58735

◀ Technical test

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