See the notes placed throughout this exam for additional context on each question, which ones are relevant, and which ones are not.
Note: in 2025, implication (→) was represented as "⇒" and biconditional (↔) was represented as "⇔".
Also note: we do NOT have solutions to these questions.

UNIVERSITY OF TORONTO
Faculty of Arts & Science

APRIL 2025 EXAMINATION

CSC 165 H1S
MATH. EXPRESSION & REASONING FOR C.S.
Instructor(s): G. Baumgartner & F. Pitt

Duration: 3 hours

Aids Allowed: None
(in particular, NO calculator)

*Do **not** turn this page until*
you have received the signal to start.

Write your name and student number below
(do this now), then read the instructions.

STUDENTS MUST HAND IN ALL EXAM MATERIALS AT THE END

Crowdmark Automated Matching Area