EXAM 1 (duration: 40 minutes)

DatZ1143: Discrete mathematics for computing
Instructor: Abuzer Yakaryılmaz
Autumn 2019

Name and surname:
Student number:
Date:

Questions

(There are 5 questions with total 10 points.)

1. Write a proposition that is false. (1 point)

2. Write a proposition that is true. (1 point)

3. Write a sentence that is not proposition. (1 point)

4)Show that the conditional statement $q \to (p \to q)$ is a tautology.
(2 points)

5) Construct a truth table for the compound proposition $(\neg p \to q) \wedge (p \to \neg q)$. (5 points)