

# CSC165, Summer 2005, Assignment 1

## marking scheme

Danny Heap

Below is the detailed summary for marking assignment 1, plus the marker's comments.

GENERAL REMARKS: Many students appeared to have not read or forgotten about the hints. A few students justified their answers by simply repeating the given statements. For example in Q4(b) answering "True, since for all  $s$  element of  $S$ ,  $B(s) \Rightarrow A(s)$ ," or in Q4(e) answering "False, since reversing a true claim is false." Some expansion is required.

1. 7 marks total. 1 marks for each of three predicates with an explanation of consistency. 1 mark for explaining why the three predicates are different. 3 marks for effort, demonstrating understanding of the problem, even if there were glitches in the final result

REMARKS: Quite a number of people gave just one predicate. Some gave no explanation for consistency. Many students didn't seem to understand what the question was asking, perhaps they didn't read the hints.

2. 12 marks total. Each part was worth 2 marks: 2/2 for correct T/F and good justification, 1.5/2 for correct T/F and weak justification, 1/2 for wrong T/F but some justification.

REMARKS: Most students lost their marks in parts (d) and (e). In part (d) the problem was understanding the " $\exists$ " part of the statement. In part (e) the problem was understanding that an implication with a false antecedent is true.

3. 3 marks total, 1 per diagram. This question was well done.

4. 10 marks total, each part was worth 2 marks: 2/2 for correct T/F and good justification, 1.5/2 for correct T/F and weak justification, 1/2 for incorrect T/F and some justification.

REMARKS: Most students lost their marks in part (e). Perhaps they didn't read the hint given in the first portion of hints!