UG Exam Performance Feedback
Second Year
2012/2013 Semester 1

COMP21111 Logic and Modelling — Andrei Voronkov

Comments

Question 1(a) was generally answered correctly. There were a few problemsthough: - sometimes in a state with ~r being the only clause splitting was done - sometimes an extra (incorrect) model was given - after finding a branch with a model extra branches were created(b1) generally answered correctly (b2) generally answered correctly, though some answers did not give the path. There were some incorrect answers starting at a state that is not an initial state.(b3) generally answered correctly (b4) many wrong answers; some showing paths starting at a state that is not an initial state and some not realising that an implication with a false left-hand-side is always true.(c) generally answered correctly. A few wrong answers picking wronginitial clauses. A few answers tried to use WSAT instead ofcalculating probabilities. Some did not know how to calculateprobabilities.Question 2(a) Many wrong answers. Worst of all, the domain axiom was not given,so it is unclear where these errors come from - not knowing the domainaxiom or miscalculating.(b) Many errors because of not knowing tableau rules.(c1) Quite a few wrong answers. For right "no" answers someexplanations were incomprehensible(c2 and c3) Some answers gave states instead of formulas.Question 3(a) Many errors in rectification: the first bound variable was renamedaway, but not second. Likewise (though rare) some free variables wererenamed. (b) It was generally answeered correctly. There were a few answerswith partial models.(c) Probably around 2/3 of all answers were correct. Question 4 (a) There were several answers where the formulas was treated aspropositional (quantifiers disregarded). A very common problem wascreating unnecessary branches. Another common issue was not specifyingif the branch is conjuctive or disjunctive. (b) Generally correct but some students used GSAT instead of WSAT.Question 5(a) Many small errors, very few students get distributivity right,some uses CNF transformation with naming(b) Strangely, very few correct answers. © Mostly unanswered