UG Exam Performance Feedback
Second Year
2014/2015 Semester 1

Q. 1.a Many solved correctly but several students did not simplify away true/false atoms after splitting.
   1.b Some students applied syntactic transformation rather than definitional clausal from transformation. Some students did not add the name of the formula to the clause set. There were a number of errors in converting definitions into clauses.
   1.c Many solved correctly but some students did not apply simplifications to obtain the correct OBDDs.
   1.d Some students struggled with expressing properties using propositional logic,

Q. 2.a Students were confused how WSAT selects the variable for flipping and how to compute the corresponding probabilities.
   2.b Some students did not rectify the formula before applying the prenexing rules.
   2.c Some students struggled with expressing properties using LTL formulas.

Q3. 2.a Most students built the correct OBDD for conjunction but struggled with disjunction.
   2.b Many solved correctly but some were confused about how to apply the tableau method to check validity of a formula.
   2.c A number of students solved correctly but some struggled with understanding the problem.

Q4 4.a Several students did not apply or applied incorrectly unit propagation in the case of a universally quantified variable. Some students applied variable splitting in the wrong order.
   4.b Some students had problems with representing the transition relation.
   4.c A number of students gave definitions of validity/equivalence but did not answer the question fully.