

UG Exam Performance Feedback

Second Year

2017/2018 Semester 1

COMP21111 Logic and Modelling

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Comments Q. 1.a Many students solved this question but a number of students did not apply unit propagation correctly, several students did not apply backtracking when needed.
1.b A number of students applied syntactic transformation rather than definitional clausal form transformation. Some students did not add the name of the formula into the clause set. There were a number of errors in converting definitions into clauses.
1.c Mostly fine, some presentation problems.

Q 2.a i) Many solved correctly, some did not integrate nodes into OBDD correctly. ii) Some problems with applying conjunction/disjunction to the OBDD nodes.
2.b A number of students did not rectify the formula before applying the prenexing rules; some errors in applying prenexing rules.
2.c Overall answered well. Several students did not simplify formulas after splitting. Some students applied variable splitting in the wrong order.

Q 3.a) Errors in application of tableaux rules. Some students built tableaux for $F=0$ instead of $F=1$.
3.b) Problems in evaluating LTL formulas and presenting computation paths.
3.c) Some students solved correctly but many struggled to represent symbolically sets of states and transitions.
