

Feedback on G53KRR 2013-2014

Exam paper and sample answers are available on
<http://www.cs.nott.ac.uk/~nza/G53KRR/krr13.pdf>
<http://www.cs.nott.ac.uk/~nza/G53KRR/krr13-answers.pdf>

57 students took the G53KRR exam.
The average for the exam was 64.
The best mark was 94 (Ke Chen).

The mark distribution was as follows:
70+: 24 (42 %)
60-69: 14 (24.5 %)
50-59: 7 (12.3 %)
40-49: 9 (16 %)
fail: 3 (5.2 %)

Average for questions was as follows:
Q1 14.7
Q2 16.5
Q3 17.2
Q4 15.5
Q5 20
Q6 15.7

Question 1 did not have many common mistakes. Part (c) on interpretations was not answered very well. Some students misunderstood the question in part (d) and gave an interpretation where two sentences from part (i) were true and two sentences from part (ii) were false. I gave 5 out of 10 marks for correct answers of this type. The real question was for every pair of sentences to give an interpretation where the first sentence is true and the second false.

Question 2 was answered better, although there were quite a few mistakes in translating to clausal form in part (a). The most common mistake in part (b) was to rename constants or functional symbols when attempting to unify clauses. You can only rename universally quantified variables.

Question 3 was answered very well. The most common mistakes were substituting for constants or functional terms, and specifying two different values to substitute for some variable, as in $x/a, x/b$. Substitution is a function.

Question 4 was fine but in part (b) many students gave the procedure for propositional backward chaining (not first-order as asked). If the answer did not mention unification with the knowledge base it got at most 4 out of 10.

Question 5 was answered extremely well by 4 students.

Question 6 was answered well and was also not very popular (14 students).