

GENERALISED LINEAR MODELLING
(STAT3015/STAT7030)

Marking Sheet for Question 1 of Assignment 2 for 2015

Question 1	Marks
(a) Presentation of R model object (1 mark) Correct choice of model (1 mark) Description of the model – words or equation (1 mark) Discussion of the explanatory variables included (1 mark)	(4) ____
(b) Producing a deviance residual plot (1 mark) Reasonable attempt to identify points or patterns of interest on the plot (1 mark) Using the linear predictors and standardised residuals (1 mark) Discussion, including a mention of the usual other residual plots (1 mark)	(4) ____
(c) Correct test or rule of thumb for over-dispersion (1 mark) Including the possibility of under-dispersion (1 mark) Discussion of results (1 mark)	(3) ____
(d) Analysis of deviance table (1 mark) Table of coefficients (1 mark) Hypotheses tested in both the above and conclusions (1 mark) Discussion of the main results of the analysis (3 marks)	(6) ____
(e) Required predictions (1 mark) Correct confidence intervals (1 mark) Assessment of the suitability of model for making predictions (1 mark)	(3) ____

Note the main discussion of the results of the analysis, including relating these results to the underlying research question is expected in part (d), but could be located in part (e) instead.

Some good concise additional work which was not a required part of the assignment, such as the graph of the data and the model shown in part (a) of the solutions may add to the discussion of the results or be given marks to redeem marks that were lost elsewhere in the question, but only if the presentation of this additional work is focused and concise and the overall page limit for the report has not been exceeded.

Student ID (1) _____

Student ID (2) _____

Total – (for Q1, out of 20) ____

Model solutions are available on Wattle, which you should compare with your solutions. Please see Xu Shi if you have a query re your marks or either Ian or Xu Shi if you have questions about the solutions.

Please note that if you wish to appeal your mark; you will need to send Ian an e-mail detailing the problem and also provide him with your marked assignment and the copy (electronic or paper) that you were supposed to keep when you submitted the assignment.

If you do request a re-mark, your entire report will be re-marked by Ian (not just the part you are querying) and your final mark for this assignment may go either up or down as a result of this re-mark.