Exam PA June 16, 2020 Project Report Template

**Instructions to Candidates: Please remember to avoid using your own name within this document or when naming your file. There is no limit on page count.**

**Also be sure all the documents you are working on have June 16 attached.**

As indicated in the instructions, work on each task should be presented in the designated section for that task.

## Task 1 – Edit the data for missing and invalid data (8 points)

## Task 2 – Explore the data (15 points)

## Task 3 – Consider two data issues (4 points)

## Task 4 – Write a data summary for your actuarial manager (6 points)

## Task 5 – Perform a principal components analysis (8 points)

## Task 6 – Construct a decision tree (10 points)

## Task 7 – Construct a generalized linear model (7 points)

## Task 8 – Perform feature selection with lasso regression (4 points)

## Task 9 – Discuss the bias-variance tradeoff (7 points)

## Task 10 – Consider the final model (4 points)

## Task 11 – Interpret the model for the client (7 points)

## Task 12 – Executive summary (20 points)