Exam PA June 17, 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 17 attached.**

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

## Task 1 – Explore the data (8 points)

## Task 2 – Consider the education variable (3 points)

## Task 3 – Handle missing values (5 points)

## Task 4 – Investigate correlations (3 points)

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

## Task 6 – Create a generalized linear model (5 points)

## Task 7 – Select features using stepwise selection (8 points)

## Task 8 – Evaluate the model (12 points)

## Task 9 – Investigate a shrinkage method (8 points)

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

## Task 11 – Employ cost-complexity pruning to construct a smaller tree (10 points)

## Task 12 – Choose a model (4 points)

## Task 13 – Executive summary (20 points)