COSC 4P82:   Assignment 1 Marking Scheme

Part A: Symbolic Regression Summary Report (20 marks)
- Problem statement: 3
- GP Parameter table: 3
- Fitness formula/strategy described: 2
- Describe changes in experiment being compared (independent variable(s)): 3
- Conclusion of what change showed better performance (if any): 3
- Performance plot(s), suitably labelled and described: 6
  - Fitness VS generations, population avg and best: all averaged over 10 runs

Part B: Rice Classification (60 marks)

A. System: 10
- Fitness code: 3
- Testing code: 1
- Language defn: 3
- Inline documentation: 1
- Discretionary: 2

B. Experiment/System design: 15
- training/testing strategy: 1
- fitness evaluation: 5
- multiple runs: 3
- reasonable parameter choices: 3
- discretionary: 3

C. Report: 35
- Introduction: **3**
- Experiment description (setup): **10**
  - parameters listed: 3
    - GP parameters
    - # runs
  - method of selecting training/testing: 2
  - Language listed, described: 3
  - Fitness formula described: 2
- Results: **12**
  - Performance graphs, suitably labelled and discussed: 3
  - Summary tables (discussed) : 3
  - Discussion of experiment results: 4
  - show some solutions: 2
- Discussion, conclusion: **5**
  - summarizes experiment
- Bibliography (source of data, GP system URL, GP references,...): **2**
- Discretionary (incl. grammar, formatting,...) : **3**

Assignment total : _____ (A; max 20) + _____ (B; max 60) = _____ (max 80)