Question 1: _____ **(5 points)**

Describe three reasons for studying programming languages.

Question 2: _____ **(5 points)**

Define the following terms relating to language evaluation criteria:

Readability

Writability

Reliability

Cost

Question 3:   **(2 points)**

Complete the following statements.

The design of the functional languages is based on _____.

Question 4:   **(4 points)**

What is the output of the following Scheme program segment.

```
(define (q1 list)
      (equal? list (reverse list))
      )

(q1 '(a b c a b))
(q1 '(a b c d e))
(q1 '(a b c b a))
```

Question 5:   **(4 points)**

Write a Scheme program segment to reverse a list.

```
(define (reverse_list lista)
      (
```