SENG2200/6220 –Programming Languages & Paradigms Self-Quiz for Week 10, Semester 1, 2020

True/False Questions.

- 1. Pure function-oriented programming languages do not have the concept of variables.

 True.
- 2. In Scheme, we can create a nested list.

True.

```
3. The following codes both output ( + 1 2 ).
```

```
a. '( + 1 2 )
b. `( ,(+ 1 2) )

False.
a. '( + 1 2 ) = ( + 1 2 )
b. `( ,(+ 1 2) ) = ( 3 )
```

- 4. The list (1 2 3) can be considered as (1 . (2 . (3))). False. It should be viewed as (1 . (2 . (3 . ()))
- 5. (eq? (list 1) (list 1)) will output #t.
 False. The output will be #f, because eq? cannot compare lists.

Short-Answer Questions

6. Write a max function to find the maximum number of the two numbers.

7. What is the result of the function below?

```
) `( ,( A 3 ) , ( B 3 ) )
)
(1 0)
```