

SENG2200/6220 –Programming Languages & Paradigms

Self-Quiz for Week 12, Semester 1, 2020

True/False Questions.

1. Prolog is a pure logic programming language.
2. Prolog is a “true/fail” system which always output (at the end) “fail” to a query.
3. All the queries below output true.

$$4 + 5 = 5 + 4$$

$$\text{not}(\text{not}(a)) = a$$

Given $A \subseteq B \cap P$, $P \subseteq C$, they infer $A \subseteq B \cap C$.

4. The following code output is “peter”.

```
professor(peter).
```

```
payedMore(X, _) :- professor(X).
```

```
?- payedMore(X, peter).
```

Short-Answer Questions

5. In Prolog, what is the meaning of Matching, Unification and Instantiation, respectively?
6. In Prolog, why do we need to use the clausal form to express propositions?