Assignment 7

Please submit by email answers to the following questions.

1. What is the difference between a concept that is defined purely syntactically and one that is defined semantically?
2. Why are the definitions of *constant, variable, term, predicate,* and *wff* snytactic?
3. Why are the definitions of *model* and M(*E*) are semantic but not syntactic?
4. How do the definitions of *constant, variable, predicate, wff, model* and M(*E*) differ from traditional definitions in philosophy in terms of necessary and sufficient conditions, like *man is a rational animal*?
5. Let *A* be a sentence. How does the definition of M(*A*) the allow us to formulate for each sentence *A* a statement of its truth-conditions in terms of the facts that muct obtain among indivdials, sets and relations in a “possible world”?
6. Why is the definition of count as a definition of truth as correspondence?
7. Exlain why given the definition of M(*A*), for an arbitrary sentences *A,* is it possible to show that an argument is valid or invalid by reference to this definition/