

Name: _____
Student ID: _____

Quiz: Tautologies, Contradictions and Contingent Statements

No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (6 marks) WITHOUT USING A TRUTH TABLE: Show that the following statement is contingent.

$$(\neg A \vee B) \rightarrow \neg(A \wedge B)$$