

## Quiz: Truth Tables

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.** (1 mark per entry) Using the method shown in class: Compute the complete truth table of the following statement.

$$(A \vee \neg B) \rightarrow [C \iff \neg(A \wedge C)]$$

A	B	C	$\neg B$	$A \vee \neg B$	$A \wedge C$	$\neg(A \wedge C)$	$C \iff \neg(A \wedge C)$	$(A \vee \neg B) \rightarrow [C \iff \neg(A \wedge C)]$
T	T	T	F	T	T	F	F	F
T	T	F	F	T	F	T	F	F
T	F	T	T	T	T	F	F	F
T	F	F	T	T	F	T	F	F
F	T	T	F	F	F	T	F	T
F	T	F	F	F	F	T	T	T
F	F	T	T	T	F	T	F	T
F	F	F	T	T	F	T	F	F