

### Well Formed Formulas (Wffs)

1. Any capital letter is a wff.
2. The result of prefixing any wff with “~” is a wff.
3. The result of joining any two wffs by “•” or “∨” or “⊃” or “≡” and enclosing the results in parentheses is a wff.

### Truth Tables for Truth Functional Connectives

#### **Negation**

P	~P
0	1
1	0

#### **Conjunction**

P	Q	(P • Q)
0	0	0
0	1	0
1	0	0
1	1	1

#### **Disjunction**

P	Q	(P ∨ Q)
0	0	0
0	1	1
1	0	1
1	1	1

#### **Conditional**

P	Q	(P ⊃ Q)
0	0	1
0	1	1
1	0	0
1	1	1

#### **Biconditional**

P	Q	(P ≡ Q)
0	0	1
0	1	0
1	0	0
1	1	1