

Tegrado, Kenneth Renz A.
CMSC 56

Exercise #2
X-3L

A.

1. Valid, hypothetical syllogism
2. Valid, constructive dilemma
3. Valid, addition
4. Valid, modus tollens
5. Valid, conjunction
6. Valid, disjunctive syllogism
7. Valid, modus ponens
8. Invalid
9. Invalid
10. Invalid
11. Valid, simplification
12. Invalid
13. Valid, disjunctive syllogism
14. Valid, simplification
15. Valid, addition

B.

I.

1. Material Implication
2. Distributivity
3. Distributivity
4. Inverse
5. Identity
6. Commutativity
7. Commutativity

II.

1. Exportation
2. Material Implication
3. Idempotency
4. Material Implication
5. Associativity
6. Idempotency
7. Material Implication
8. Associativity
9. Idempotency