

- I. Write out Hurley's 8 Rules of Implication and 10 Rules of Replacement (Equivalence). (25 points)
- II. Derive the following. You may use any of the 18 rules on any problem. (15 points each):
 - A.
 - B.
 - C.
- III. Do ONE of the following. Use either Conditional Proof or Indirect Proof. (15 pts).
 - A.
 - B.
- IV. Translate the following argument into symbolic form and use the 18 rules of inference to derive the conclusion of each. Use the translation letters in the order in which they are listed. (15 points)