

IV. Please circle the letter that corresponds to the best answer. Each is worth 1 mark.

$$\begin{array}{l} 1. \quad (A \bullet B) \rightarrow C \\ \quad \quad A \bullet B \\ \hline \quad \quad C \end{array}$$

Above is an example of which valid argument form?

- a) Modus Tollens
- b) Modus Ponens
- c) Disjunctive Syllogism
- d) Hypothetical Syllogism

Handwritten logic rules and truth tables:

$$P \rightarrow q \quad \text{or} \quad \sim P \rightarrow \sim q \quad \text{or} \quad P \rightarrow \sim q$$

$$\frac{P}{q} \quad \frac{\sim P}{\sim q} \quad \frac{P}{\sim q}$$

$$\frac{\sim P \rightarrow q}{\sim P}{q} \quad \frac{P}{P \rightarrow q}{q}$$

$$\begin{array}{l} 2. \quad D \\ \quad \quad E \\ \hline \quad \quad D \bullet E \end{array}$$

Above is an example of which valid argument form?

- a) Simplification
- b) Addition
- c) Conjunction
- d) Affirming the Consequent

$$\begin{array}{l} 3. \quad A \vee B \\ \quad \quad \textcircled{\sim B} \\ \hline \quad \quad A \end{array}$$

Above is an example of which valid argument form?

- a) Modus Tollens
- b) Modus Ponens
- c) Disjunctive Syllogism
- d) Hypothetical Syllogism

Handwritten logic rules:

$$P \vee \sim P \quad \text{or} \quad A \vee \sim A$$

$$\frac{\sim q}{p} \quad \frac{\sim p}{q}$$