1- Which answer option is a correct statement about the following ASP program (in **Problem 1**)?

$$p$$

$$r \leftarrow p \wedge q$$

- This ASP program has exactly 2 stable models.
- This ASP program is a definite program.
- This ASP program is NOT a positive program.
- This ASP program is unsatisfiable under propositional logic.

Answer: B (This ASP program is a definite program.)

2. Which answer option is a correct statement about the following ASP program (in **Problem 2**)?

$$p \leftarrow \neg q$$

$$q \leftarrow \neg p$$

- This ASP program is a definite program.
- This ASP program has exactly 2 stable models.
- This ASP program is a positive program.
- This ASP program has no stable model but is satisfiable under propositional logic.

Answer: B (This ASP program has exactly 2 stable models.)

3. Which answer option is a correct statement about the following ASP program (in **Problem 3**)?

$$p \leftarrow \neg p$$

$$p \vee q$$

- The critical part of the propositional rule in the ASP program is the “p” in the body of the first rule.
- This ASP program has exactly 1 stable model and is satisfiable under propositional logic.
- This ASP program has exactly 2 stable models.
- This ASP program is a definite program.

Answer: B (This ASP program has exactly 1 stable model and is satisfiable under propositional logic.)